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Use of condensated (hetaryl-substituted) 1-benzal-3-pyrazol derivatives for treating special diseases of the cardiovascular and the central nervous systems

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(54) Title: USE OF CONDENSATED (HETARYL-SUBSTITUTED) 1-BENZYL-3-PYRAZOL DERIVATES FOR TREATING SPECIAL DISEASES OF THE CARDIOVASCULAR AND THE CENTRAL NERVOUS SYSTEMS		
(54) Bezeichnung: VERWENDUNG VON 1-BENZYL-3-(SUBSTITUIERTES-HETARYL)-KONDENSIERTEN PYRAZOL-DERIVATEN ZUR BELANDLUNG VON SPEZIELLEN ERKRANKUNGEN DES HERZ-KREISLAUFSYSTEMS UND DES ZENTRALNERVENSYSTEMS		
<p style="text-align: right;">(I)</p>		
(57) Abstract		
<p>The present invention relates to the new application of condensated (hetaryl-substituted) 1-benzyl-3-pyrazol derivatives of general formula (I), where R<sup>1</sup> to R<sup>4</sup> have the meanings given in the description, as drug products and new active substances, and more particularly to their use as vasodilators, possibly combined with organic nitrates and NO donors, possibly combined with compounds which inhibit the degradation of cGMP.</p>		
(57) Zusammenfassung		
<p>Die vorliegende Erfindung betrifft die neue Verwendung von teilweise bekannten 1-Benzyl-3-(substituierten-hetaryl)-kondensierten Pyrazol-Derivaten der allgemeinen Formel (I), in welcher R<sup>1</sup> bis R<sup>4</sup> die in der Beschreibung angegebene Bedeutung haben, als Arzneimittel, neue Wirkstoffe, insbesondere ihre Verwendung als Vasodilatoren, gegebenenfalls in Kombination mit organischen Nitraten und NO-Donoren, und gegebenenfalls in Kombination mit Verbindungen, die den Abbau von cGMP inhibieren.</p>		

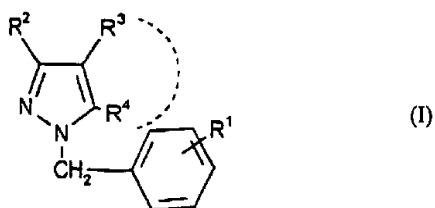
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PATENT OFFICE

## USE OF 1-BENZYL-3-(SUBSTITUTED HETARYL)-FUSED PYRAZOLE DERIVATIVES FOR THE TREATMENT OF SPECIFIC DISORDERS OF THE CARDIOVASCULAR SYSTEM AND OF THE CENTRAL NERVOUS SYSTEM

The present invention relates to the new use of 1-benzyl-3-(substituted hetaryl)-fused pyrazole derivatives, some of which are known, as medicaments, and to new active compounds, in particular to their use as vasodilators, if appropriate in combination with organic nitrates and NO donors and if appropriate in combination with compounds which inhibit the degradation of cGMP.

It is already known that 1-benzyl-3-(substituted hetaryl)-fused pyrazole derivatives inhibit stimulated platelet aggregation in vitro (cf. EP-667 345 A1; C.-C. Wu et al., Br. J. Pharmacol. 1995; 116: 1973 - 1978; F.-N. Ko et al., Blood 1994; 84: 4226 - 4233; S.-U. Yu et al., Blood 1996, 87: 3758 - 3767).

It has now surprisingly been found that 1-benzyl-3-(substituted hetaryl)-fused pyrazole derivatives of the general formula (I)

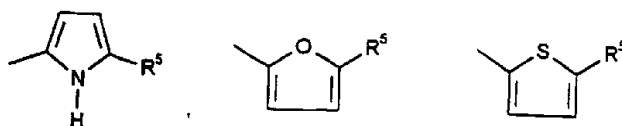


15 in which

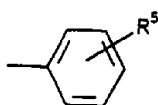
R<sup>1</sup> represents hydrogen, halogen, hydroxyl or C<sub>1</sub>-C<sub>3</sub>-alkyl or C<sub>1</sub>-C<sub>3</sub>-alkoxy,

R<sup>2</sup> represents a radical of the formula





or



in which

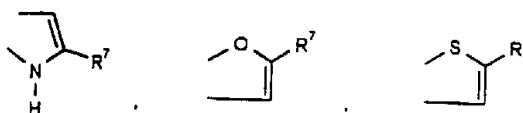
$R^5$  denotes hydrogen, halogen, carboxyl,  $C_1$ - $C_3$ -alkyl,  $C_1$ - $C_3$ -alkoxy carbonyl or a radical of the formula  $-CH_2-OR^6$ ,

5

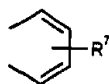
in which

$R^6$  denotes hydrogen or  $C_1$ - $C_3$ -alkyl,

$R^3$  and  $R^4$  together form a radical of the formula



or



in which



R<sup>7</sup> denotes hydrogen, halogen, hydroxyl, C<sub>1</sub>-C<sub>3</sub>-alkyl or C<sub>1</sub>-C<sub>3</sub>-alkoxy,

and their isomeric forms and salts,

besides their weak antiaggregatory properties exhibit a marked vasodilatory action, in particular a lowering of blood pressure. They are thus suitable for the treatment of  
5 specific disorders of the cardiovascular system, in particular for the treatment of various forms of angina pectoris, of myocardial infarct, of cardiac insufficiency, of arteriosclerosis, stroke and of hypertension.

The compounds of the general formula (I) according to the invention can also be present in the form of their salts. In general, salts with organic or inorganic bases or  
10 acids may be mentioned here.

In the context of the present invention, physiologically acceptable salts are preferred. Physiologically acceptable salts can be salts of the substances according to the invention with mineral acids, carboxylic acids or sulphonic acids. Particularly preferred salts are, for example, those with hydrochloric acid, hydrobromic acid, sulphuric acid,  
15 phosphoric acid, methanesulphonic acid, ethanesulphonic acid, toluenesulphonic acid, benzenesulphonic acid, naphthalenedisulphonic acid, acetic acid, propionic acid, lactic acid, tartaric acid, citric acid, fumaric acid, maleic acid or benzoic acid.

Physiologically acceptable salts can likewise be metal or ammonium salts of the compounds according to the invention if they have a free carboxyl group. Particularly  
20 preferred salts are, for example, sodium, potassium, magnesium or calcium salts, and also ammonium salts which are derived from ammonia, or organic amines such as, for example, ethylamine, di- or triethylamine, di- or triethanolamine, dicyclohexylamine, dimethylaminoethanol, arginine, lysine or ethylenediamine.

In the context of the invention, C<sub>1</sub>-C<sub>3</sub>-alkyl represents a straight-chain or branched hydrocarbon radical having 1 to 3 carbon atoms. Examples which may be mentioned  
25 are: methyl, ethyl, propyl and isopropyl.



In the context of the invention, C<sub>1</sub>-C<sub>3</sub>-alkoxy represents a straight-chain or branched alkoxy radical having 1 to 3 carbon atoms. Examples which may be mentioned are: methoxy, ethoxy, propoxy and isopropoxy.

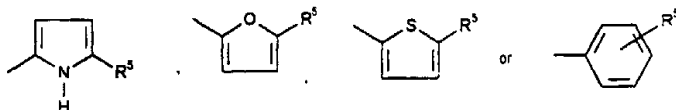
In the context of the invention, C<sub>1</sub>-C<sub>3</sub>-alkoxycarbonyl represents a straight-chain or branched alkoxycarbonyl radical having 1 to 3 carbon atoms. Examples which may be mentioned are: methoxycarbonyl, ethoxycarbonyl, propoxycarbonyl and isopropoxycarbonyl.

Preferably, compounds of the general formula (I) according to the invention

in which

10 R<sup>1</sup> represents hydrogen, fluorine, chlorine, C<sub>1</sub>-C<sub>3</sub>-alkyl or C<sub>1</sub>-C<sub>3</sub>-alkoxy,

R<sup>2</sup> represents a radical of the formula



in which

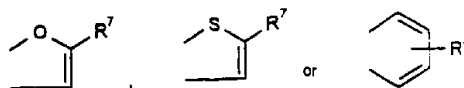
R<sup>5</sup> denotes hydrogen, chlorine, carboxyl, C<sub>1</sub>-C<sub>3</sub>-alkyl, C<sub>1</sub>-C<sub>3</sub>-alkoxycarbonyl or a radical of the formula -CH<sub>2</sub>-OR<sup>6</sup>,

15 in which

R<sup>6</sup> denotes hydrogen or methyl,

R<sup>3</sup> and R<sup>4</sup> together form a radical of the formula





in which

$R^7$  denotes hydrogen, fluorine, chlorine,  $C_1$ - $C_3$ -alkyl or  $C_1$ - $C_3$ -alkoxy,

and their isomeric forms and salts,

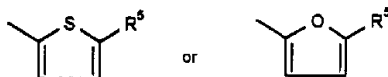
are used for the treatment of specific cardiovascular disorders.

5 Particularly preferably, compounds of the general formula (I) according to the invention

in which

$R^1$  represents hydrogen, fluorine, chlorine or methoxy,

$R^2$  represents a radical of the formula



in which

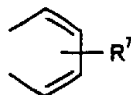
10  $R^5$  denotes hydrogen,  $C_1$ - $C_3$ -alkyl or a radical of the formula  $-CH_2-OR^6$ ,

in which

$R^6$  denotes hydrogen or methyl,



$R^3$  and  $R^4$  together form a radical of the formula



in which

$R^7$  denotes hydrogen, chlorine, fluorine, methyl or methoxy,

and their isomeric forms and salts,

- 5 are used for the treatment of specific cardiovascular disorders which are treatable by a vasodilatory effect.

The invention additionally relates to new substances which are listed in the following table:

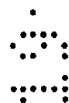
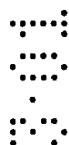
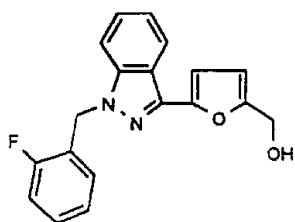
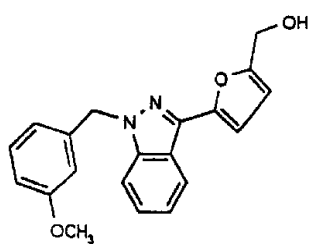
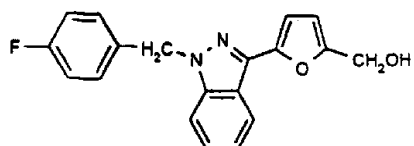
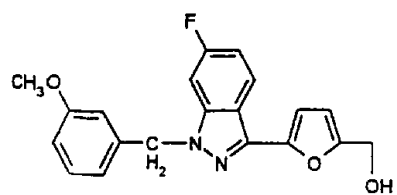
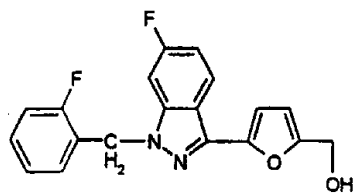
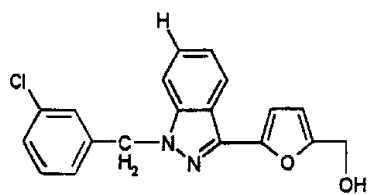
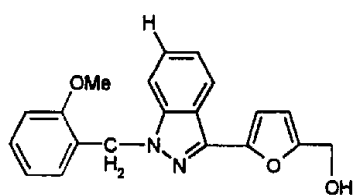
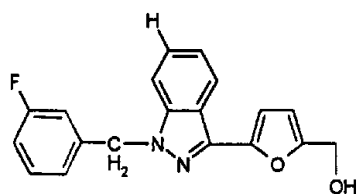
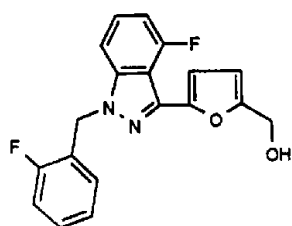
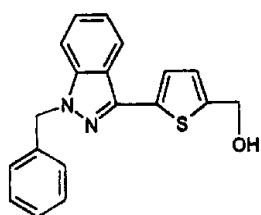
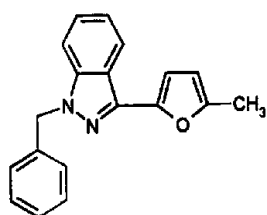
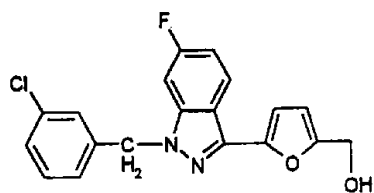


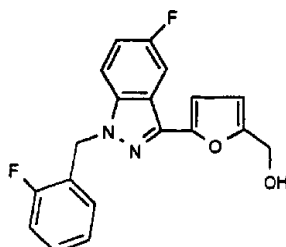


Table:









The known and new compounds of the general formula (I) according to the invention can be prepared by customary methods, e.g. according to EP-667 345 A1.

- Moreover, the invention preferably also includes the combination of the compounds of the general formula (I) according to the invention and of the new substances with organic nitrates and NO donors.

Organic nitrates and NO donors in the context of the invention are in general substances which display their therapeutic action via the release of NO or NO species. Sodium nitroprusside (SNP), nitroglycerine, isosorbide dinitrate, isosorbide mononitrate, molsidomine and SIN-1 and similar substances are preferred.

- The invention additionally includes the combination with compounds which inhibit the degradation of cyclic guanosine monophosphate (cGMP). These are in particular inhibitors of the phosphodiesterases 1, 2 and 5; nomenclature according to Beavo and Reifsnyder (1990) TIPS 11 pp. 150-155. By means of these inhibitors, the action of the compounds according to the invention is potentiated and the desired pharmacological effect is increased.

The new and known compounds of the general formula (I) to be used according to the invention exhibit an unforeseeable, valuable spectrum of pharmacological action. They induce, for example, a vasorelaxation and lead to a lowering of blood pressure and increase in the coronary blood flow.



They are thus suitable for use in the treatment of specific disorders of the cardiovascular system such as, for example, the various forms of angina pectoris, of myocardial infarct, of cardiac insufficiency, of arteriosclerosis, stroke and of hypertension.

- 5 To determine the cardiovascular action, the following investigations were carried out: in in vitro investigations on cells of vascular origin, the influence on guanylate cyclase-dependent cGMP formation was tested with and without NO donors. The vasorelaxant action was determined on rabbit aorta rings precontracted with phenylephrine. The hypotensive action was investigated in anaesthetized rats.

10 Stimulation of soluble guanylate cyclase in primary endothelial cells

- Primary endothelial cells were isolated from pig aortas by treatment with collagenase soln. The cells were then cultured in culture medium until confluence was achieved. For the investigations, the cells were passaged, inoculated into cell culture plates and subcultured until confluence was achieved. To stimulate the endothelial guanylate cyclase, the culture medium was aspirated and the cells were washed once with Ringer's solution and incubated in stimulation buffer with or without NO donor (sodium nitroprusside, SNP, 1  $\mu$ M). Following this, the test substances (final concentration 1  $\mu$ M) were then pipetted onto the cells. After the end of the incubation time of 10 minutes, the buffer solution was aspirated and the cells were lysed at -20°C
- 20 for 16 hours. The intracellular cGMP was then determined radioimmunologically.



**Table A**

	Ex. No.	% cGMP increase (NOSYNTH)
	1	>1000
	2	72
5	3	250
	4	413
	7	734
	8	28
	10	238
10	11	14
	14 (YC-1) EP 667 345 A1	> 906

**Vasorelaxant action in vitro**

1.5 mm wide rings of an isolated rabbit aorta are placed individually under a pretension into 5 ml organ baths containing carbogen-aerated Krebs-Henseleit solution at a temperature of 37°C. The contractile force is amplified and digitalized, and recorded in parallel on a linear recorder. To generate a contraction, phenylephrine is added to the bath cumulatively in increasing concentration.

After several control cycles, the substance to be investigated is investigated in each further passage in increasing dose in each case and [lacuna] is compared with the height of the contraction achieved in the last previous passage. From this, the concentration is calculated which is necessary to reduce the height of the control value



by 50% (IC<sub>50</sub>). The standard administration volume is 5 µl.

Table B

5

Ex. No.	Aorta IC 50 (µM)
1	4.1
3	16
4	9.2
14 (YC-1) EP 667 345 A	10

Blood pressure measurements on anaesthetized rats

- 10 Male Wistar rats having a body weight of 300 - 350 g are anaesthetized with thiopental (100 mg/kg i.p.). After tracheotomy, a catheter is inserted in the femoral artery for blood pressure measurement. The substances to be tested are administered orally in various doses as a suspension in Tylose solution by means of stomach tube.

Table C

15

Ex. No.	Dose	Max. blood pressure decrease	Time
1	10 mg/kg	-14 mm Hg	60 min
	30 mg/kg	-18 mm Hg	60 min
14 (YC-1) EP 667 345 A1	10 mg/kg	-10 mm Hg	60 min
	30 mg/kg	-18 mm Hg	60 min



The compounds described in the present invention are also active compounds for the control of illnesses in the central nervous system which are characterized by disorders of the NO/cGMP system. In particular, they are suitable for the elimination of cognitive deficits, for the improvement of learning and memory disorders and for the treatment  
5 of Alzheimer's disease. They are also suitable for the treatment of disorders of the central nervous system such as anxiety, tension and depressive states, sexual dysfunctions and sleep disorders caused by the central nervous system, and for the regulation of pathological disorders in food, semi-luxury food and addictive drug intake.

10 Furthermore, these active compounds are also suitable for the regulation of the cerebral circulation and are thus effective agents for the control of migraine.

They are also suitable for the prophylaxis and control of the sequelae of cerebral infarcts (cerebral apoplexy) such as stroke, cerebral ischaemias and of cranio-cerebral trauma. The compounds according to the invention can likewise be employed for the  
15 control of states of pain.

The present invention includes pharmaceutical preparations which, besides non-toxic, inert pharmaceutically suitable excipients, contain one or more compounds according to the invention or which consist of one or more active compounds according to the invention, and processes for the production of these preparations.

20 The active compound(s) can optionally also be present in microencapsulated form in one or more of the excipients indicated above.

The therapeutically active compounds should be present in the abovementioned pharmaceutical preparations in a concentration of approximately 0.1 to 99.5, preferably of approximately 0.5 to 95% by weight of the total mixture.

25 Apart from the compounds according to the invention, the pharmaceutical preparations mentioned above can also contain further pharmaceutical active compounds.





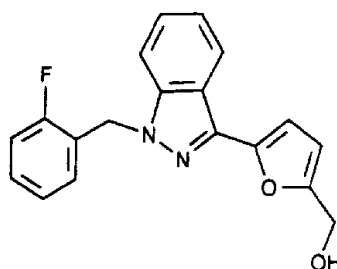
In general, it has proved advantageous both in human and in veterinary medicine to administer the active compound(s) according to the invention in total amounts of approximately 0.5 to approximately 500, preferably 5 to 100, mg/kg of body weight every 24 hours, if appropriate in the form of several individual doses, to achieve the  
5 desired results. An individual dose contains the active compound(s) according to the invention preferably in amounts of approximately 1 to approximately 80, in particular 3 to 30, mg/kg of body weight.



**Preparation Examples**

**Example 1**

1-(2-Fluorobenzyl)-3-(5-hydroxymethylfuran-2-yl)-indazole



0.8 g (2.5 mmol) of 1-(2-fluorobenzyl)-3-(5-formyl-2-furanyl)-indazole is suspended in  
5 40 ml of propanol and 0.8 g of NaBH<sub>4</sub> is added slowly at 0°C. After stirring at room  
temperature for 1 hour, the clear solution is added to water, the mixture is extracted  
with ethyl acetate, the organic phase is dried with sodium sulphate and evaporated in  
vacuo, and the residue is chromatographed on silica gel using toluene (T) ethyl acetate  
(E) mixtures as eluent.

10 620 mg (77% of theory) of crystals are obtained.

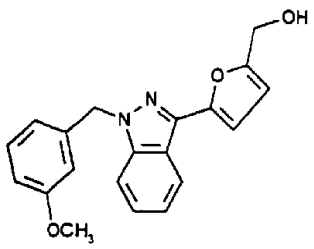
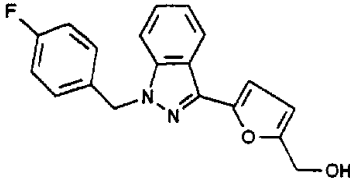
M.p. (melting point): 83°C

R<sub>f</sub> (SiO<sub>2</sub>, toluene/ethyl acetate 2:1): 0.50

The examples in Tables 1, 2 and 3 were prepared analogously:



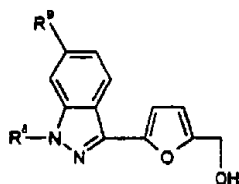
Table 1

Ex. No.	Structure	M.p. <sup>1)</sup> °C
2		95
3		82

<sup>1)</sup> Melting point



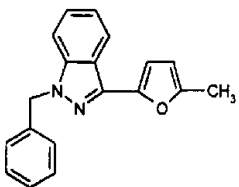
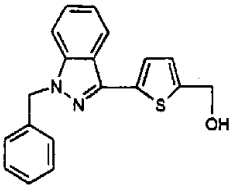
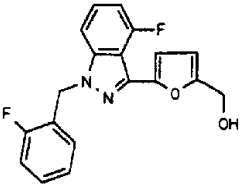
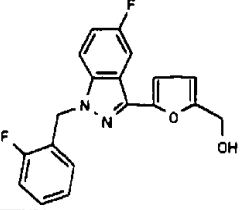
Table 2



Ex. No.	R <sup>2</sup>	R <sup>1</sup>	Yield (% of theory) R <sub>1</sub> M.p. °C
4		H	43 112 0.50 (TEA 1:1)
5		H	50 109
6		H	6
7		F	65
8		F	40 95
9		F	9



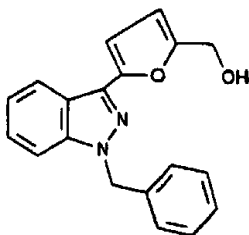
Table 3

Ex. No.	Structure	Yield (% of theory) $R_f$ M.p. °C
10		92 63 0.40 (H:EA 3:1)
11		
12		89 136 0.33 (H:EA 1:1)
13		83 141 0.44 (H:EA 1:1)

(H = hexane)



**Table 3** (continuation)

Ex. No.	Structure	Yield (% of theory) $R_f$ M.p. °C
14	 YC-1 (EP 667345A1)	112

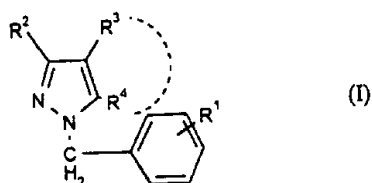
Throughout this specification and the claims which follow, unless the context requires otherwise, the word "comprise", or variations such as "comprises" or "comprising", will be understood to imply the inclusion of a stated integer or step or group of integers or steps but not the exclusion of any other integer or step or group of integers or steps.

The reference to any prior art in this specification is not, and should not be taken as, an acknowledgment or any form of suggestion that that prior art forms part of the common general knowledge in Australia.



Patent Claims

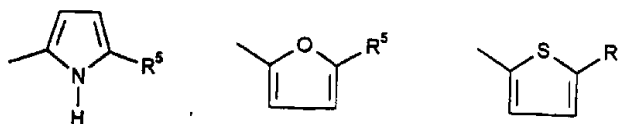
1. Use of 1-benzyl-3-(substituted hetaryl)-fused pyrazole derivatives of the general formula (I)



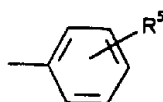
in which

- 5  $R^1$  represents hydrogen, halogen, hydroxyl or  $C_1$ - $C_3$ -alkyl or  $C_1$ - $C_3$ -alkoxy,

$R^2$  represents a radical of the formula



or



in which

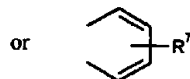
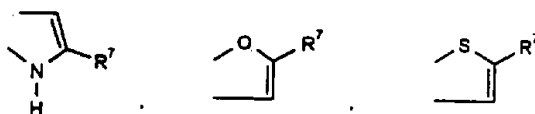
$R^5$  denotes hydrogen, halogen, carboxyl,  $C_1$ - $C_3$ -alkyl,  $C_1$ - $C_3$ -alkoxy carbonyl or a radical of the formula  $-CH_2-OR^6$ ,



in which

$R^6$  denotes hydrogen or  $C_1-C_3$ -alkyl,

$R^3$  and  $R^4$  together form a radical of the formula



in which

$R_7$  denotes hydrogen, halogen, hydroxyl,  $C_1-C_3$ -alkyl or  $C_1-C_3$ -alkoxy,

and their isomeric forms and salts,

for the production of medicaments for the treatment of specific disorders of the cardiovascular system which are treatable by a vasodilatory effect.

2. Use of the compounds of the general formula (I) according to Claim 1 for the production of medicaments for the control of hypertension.
3. Medicaments containing compounds of the general formula (I) according to Claim 1 in combination with organic nitrates and NO donors.





4. Use of compounds of the general formula (I) according to Claim 1 in combination with organic nitrates and NO donors for the production of medicaments for the treatment of cardiovascular disorders.
5. Use of compounds of the general formula (I) according to Claim 1 in combination with compounds which inhibit the degradation of cGMP, for the production of medicaments for the treatment of cardiovascular disorders.
6. Novel compounds from the group consisting of  
1-(2-fluorobenzyl)-3-(5-hydroxymethylfuran-2-yl)-indazole,  
1-(4-fluorobenzyl)-3-(5-hydroxymethylfuran-2-yl)-indazole,  
10 3-(5-hydroxymethylfuran-2-yl)-1-(3-methoxybenzyl)-indazole,  
1-(3-fluorobenzyl)-3-(5-hydroxymethylfuran-2-yl)-indazole,  
3-(5-hydroxymethylfuran-2-yl)-1-(2-methoxybenzyl)-indazole,  
1-(3-chlorobenzyl)-3-(5-hydroxymethylfuran-2-yl)-indazole,  
6-fluoro-1-(2-fluorobenzyl)-3-(5-hydroxymethylfuran-2-yl)-indazole,  
15 6-fluoro-3-(5-hydroxymethylfuran-2-yl)-1-(3-methoxybenzyl)-indazole,  
1-(3-chlorobenzyl)-6-fluoro-3-(5-hydroxymethylfuran-2-yl)-indazole,  
1-benzyl-3-(5-methylfuran-2-yl)-indazole,  
1-benzyl-3-(5-hydroxymethylthiophene-2-yl)-indazole,  
4-fluoro-1-(2-fluorobenzyl)-3-(5-hydroxymethylfuran-2-yl)-indazole and  
20 5-fluoro-1-(2-fluorobenzyl)-3-(5-hydroxymethylfuran-2-yl)-indazole.
7. Medicaments containing a compound according to Claim 6.
8. Use of compounds of the general formula (I), as defined in Claim 1, for the production of a medicament for the treatment of disorders of the central nervous system.
- 25 9. Use according to Claim 8 for the treatment of cerebral infarcts.

