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(54) Title: STABLE PHARMACEUTICAL FORMULATIONS OF BENZIMIDAZOLE COMPOUNDS

(57) Abstract: Provided are stable pharmaceutical formulations of benzimidazole compounds, particularly esomeprazole magnesium, and processes for their preparation.



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INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER
INV. A61K9/50 A61K31/4439

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, EMBASE, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 328 994 B1 (SHIMIZU TOSHIHIRO ET AL) 11 December 2001 (2001-12-11) column 3, lines 4-7 column 7, line 49 - column 8, line 8 column 19 - column 24; examples 1-3 -----	1-32,38
Y	US 5 817 338 A (BERGSTRAND ET AL) 6 October 1998 (1998-10-06) column 12 - column 13; example 8 -----	1-38
Y	WO 96/01622 A (ASTRA AKTIEBOLAG) 25 January 1996 (1996-01-25) page 12 - page 13; example 3 ----- -/--	1-38



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2005/021085

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4 786 505 A (LOVGREN ET AL) 22 November 1988 (1988-11-22) cited in the application column 3, line 14 - column 6, line 5 column 10 - column 11; example 8 -----	33-37
X	WO 98/19668 A (SHARMATEK, INC; SHARMA, VINAY, K) 14 May 1998 (1998-05-14) page 4, lines 22-29 page 5, line 9 - page 7, line 21 page 8, lines 16-20 page 8 - page 15; examples 1-11 -----	33-36

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2005/021085

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-32,38 (entirely)

Composition comprising: a) an inert inner core, b) a first coating on top of the inner core comprised of a benzimidazole compound and an alkaline stabilizer, c) an intermediate coating on top of the first coating devoid of an alkaline stabilizer comprising the same or different benzimidazole compound and d) an outer enteric layer.

2. claims: 33-37 (entirely)

Composition comprising: a) an inner core comprised of a benzimidazole compound and an alkaline stabilizer, b) an intermediate coating on said inner core devoid of an alkaline stabilizer comprising the same or different benzimidazole compound and c) an outer enteric layer.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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