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(54) Title: HUMAN G PROTEIN-COUPLED RECEPTORS AND MODULATORS THEREOF FOR THE TREATMENT OF INFLAMMATORY DISORDERS

(57) Abstract: The invention disclosed in this patent document relates to transmembrane receptors, particularly a human G protein-coupled receptor, more particularly to a CXC chemokine receptor subtype 3 (CXCR3), and most particularly to mutated (non-endoenzymatic) version of the human CXCR3 for evidence of constitutive activity and uses thereof. In some embodiments the altered versions of CXCR3 are used, inter alia, for the direct identification of candidate compounds such as receptor agonists, inverse agonists, partial agonist or antagonist for use in, for example and not limitation, graft rejection; inflammatory skin disease; inflammatory bowel disease; allergic inflammation, allergic pulmonary inflammation, inflammatory demyelinating neuropathy, CNS inflammation; rheumatoid arthritis, bronchiolitis obliterans syndrome, periodontal disease and neurodegenerative disease.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC(7) : C07H 21/04; C12N 15/74; C12N 5/02; C12P 21/06; G01N 33/53
US CL : 536/23.1; 435/320.1; 435/325; 435/69.1; 435/7.1
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)
U.S.: 536/23.1; 435/320.1; 435/325; 435/69.1; 435/7.1

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

Electronic database consulted during the international search (name of database and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
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<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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</table>

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