Title (en)

METHODS OF IDENTIFYING SAFE NMDA RECEPTOR ANTAGONISTS

Title (de)

VERFAHREN ZUR IDENTIFIZIERUNG SICHERER NMDA-REZEPTOR-ANTAGONISTEN

Title (fr)

PROCÉDÉS D'IDENTIFICATION D'ANTAGONISTES DU RÉCEPTEUR DE NMDA SÛRS

Publication

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Application

EP 08847388 A 20081106

Priority

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- US 98592207 P 20071106

Abstract (en)

[origin: WO2009061935A2] Processes are providedfor the identifcation a compound that is useful to treat or prevent a disorder that lowers the pH in a region of affected tissue comprising assessing the difference in potency, or potency boost, of the compound at physiological pH versus disorder-induced pH in a cell that expresses a human NMDA receptor. The assessment of potency boost can include measuring an IC50 of a compound at physiological pH and at disorder-induced pH (the "potency boost") until a 95% confidence interval for the potency boost does not change more than 15% with the addition of a new experiment, wherein the measurements are repeated at least 5 times. The processes can be used for the selection of safe NMDA receptor antagonists for the treatment or prevention of a human disorder that lowers the pH in a region of affected tissue. Such disorders include, but are not limited to, neuropathic pain, ischemia, Parkinsons disease, epilepsy and traumatic brain injuries.

IPC 8 full level

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Citation (search report)

- [X] WO 2006023957 A1 20060302 - UNIV EMORY [US], et al
- [A] TAKIZAWA S ET AL: "THE EFFECTS OF A COMPETITIVE NMDA RECEPTOR ANTAGONIST CGS-19755 ON CEREBRAL BLOOD FLOW AND PH IN FOCAL ISCHEMIA", JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM, vol. 11, no. 5, 1991, pages 786 - 793, XP002657900, ISSN: 0271-678X
- [A] MOTT D D ET AL: "Phenylethanolamines inhibit NMDA receptors by enhancing proton inhibition.", NATURE NEUROSCIENCE DEC 1998 LNKD-PUBMED:10196581, vol. 1, no. 8, December 1998 (1998-12-01), pages 659 - 667, XP002657901, ISSN: 1097-6256
- See references of WO 2009061935A2

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