MPEP

Cat. No.: HY-14609A
CAS No.: 96206-92-7
Molecular Formula: C₁₄H₁₁N
Molecular Weight: 193.24
Target: mGluR
Pathway: GPCR/G Protein; Neuronal Signaling
Storage: Please store the product under the recommended conditions in the COA.

BIOLOGICAL ACTIVITY

Description: MPEP is a potent and highly selective non-competitive antagonist at the mGlu5 receptor subtype (IC50 = 36 nM) and a positive allosteric modulator at mGlu4 receptors. IC50 value: 36 nM
Target: mGluR5
Centrally active following systemic administration in vivo. Reverses mechanical hyperalgesia in the inflamed rat hind paw.

REFERENCES

[1]. D’Souza, Manoranjan S.; Markou, Athina Metabotropic glutamate receptor 5 antagonist 2-methyl-6-(phenylethynyl)pyridine (MPEP) microinfusions into the nucleus accumbens shell or ventral tegmental area attenuate the reinforcing effects of nicotine in rats.

[2]. Chau, Peipei; Soederpalm, Bo; Ericson, Mia The mGluR5 antagonist MPEP elevates accumbal dopamine and glycine levels; interaction with strychnine-sensitive glycine receptors. Addiction Biology (2011), 16(4), 591-599.

[3]. Inta, Dragos; Filipovic, Dragana; Lima-Ojeda, Juan M. et al. The mGlu5 receptor antagonist MPEP activates specific stress-related brain regions and lacks neurotoxic effects of the NMDA receptor antagonist MK-801: Significance for the use as anxiolytic/ant

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

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