Product Name: NKP608
CAS No.: 177707-12-9
Cat. No.: HY-18006
MWt: 619.98
Formula: C31H24ClF6N3O2
Purity: >98%
Solubility: DMSO

Mechanisms: Pathways: GPCR/G protein; Target: Neurokinin Receptor
Pathways: Neuronal Signaling; Target: Neurokinin Receptor

Biological Activity:

NKP608 is a non-peptidic derivative of 4-aminopiperidine which acts as a selective, specific and potent antagonist at the neurokinin-1 (NK-1) receptor both in vitro (IC50=2.6 nM) and in vivo.

IC50 value: 2.6 nM
Target: NK-1 receptor

In vitro, the binding of NKP608 to bovine retina was characterized by an IC50 of 2.6±0.4 nM, whereas the compound's affinity to other receptor binding sites, including NK-2 and NK-3, was much lower. Species differences in IC(50) values with NKP608 were less pronounced than with previously described NK-1 receptor antagonists, being 13±1.2 and 27±1.2 nM in gerbil midbrain and rat striatum, respectively. In vivo, using the hind foot thumping model in gerbils, NKP608 exhibited a potent NK-1 antagonistic activity following oral administration (ID(50)=0.23 mg/kg; 2 h pretreatment), supporting a central activity of NKP608. NKP608 may prove a us...

References:
[5]. Vassout A, Veenstra S, Hauser K...

Caution: Not fully tested. For research purposes only

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