

NKP608

Catalog No: tcsc1077



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg



Specifications

CAS No:

177707-12-9

Formula:

$C_{31}H_{24}ClF_6N_3O_2$

Pathway:

Neuronal Signaling;GPCR/G Protein

Target:

Neurokinin Receptor;Neurokinin Receptor

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

619.98

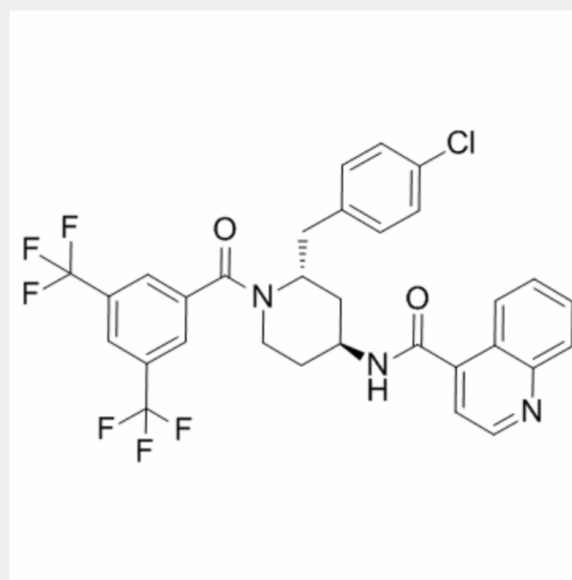
Product Description

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 \pm 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 \pm 2 and 27 \pm 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 useful anxiolytic compound.



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