

# 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

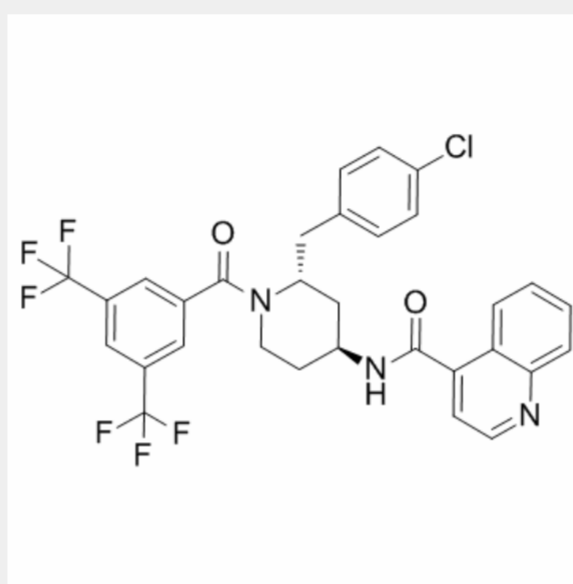
## Product Description

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±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±2 and 27±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.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!