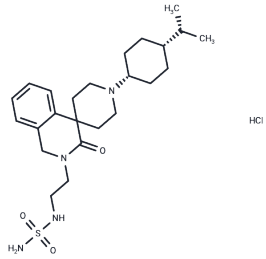
# Data Sheet (Cat.No.T39529)

TargetMol
YOUR TARGET MOLECULES

## AT-121 hydrochloride

### Chemical Properties



CAS No. : 2099681-71-5

Formula: C24H39ClN4O3S

Molecular Weight: 499.11

Appearance: no data available

Storage: store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

### Biological Description

| | |
|---|---|
| Description | AT-121 hydrochloride is a dual agonist of nociception and mu opioid receptor with Ki values of 3.67 and 16.49 nM, respectively.AT-121 hydrochloride is a safe, non-addictive, pain relieving compound with anti-injury and analgesic activity. AT-121 hydrochloride is a safe, non-addictive, pain relieving compound with anti-injury and analgesic activity. |
| Targets(IC50) | Opioid Receptor |
| In vivo | AT-121 hydrochloride (0.003-0.03 mg/kg; s.c.; Adult male and female rhesus monkeys) produced antinociceptive effects against an acute noxious stimulus, 50 °C water, in a dose-dependent. Having produces a potent antinociceptive effect.[1] |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 50 mg/mL (100 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.0036 mL | 10.0178 mL | 20.0357 mL |
| 5 mM | 0.4007 mL | 2.0036 mL | 4.0071 mL |
| 10 mM | 0.2004 mL | 1.0018 mL | 2.0036 mL |
| 50 mM | 0.0401 mL | 0.2004 mL | 0.4007 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Ding H, et al. A bifunctional nociceptin and mu opioid receptor agonist is analgesic without opioid side effects in nonhuman primates. Sci Transl Med. 2018;10(456):eaar3483.

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481