

Product Data Sheet

Product Name: JP-1302 (hydrochloride)

Cat. No.: GC43932

Chemical Properties

Cas. No. 1259314-65-2

SMILES CN1CCN(C2=CC=C(NC3=C(C=CC=C4)C4=NC5=C3C=CC=C5)C=C2)CC1.Cl.Cl

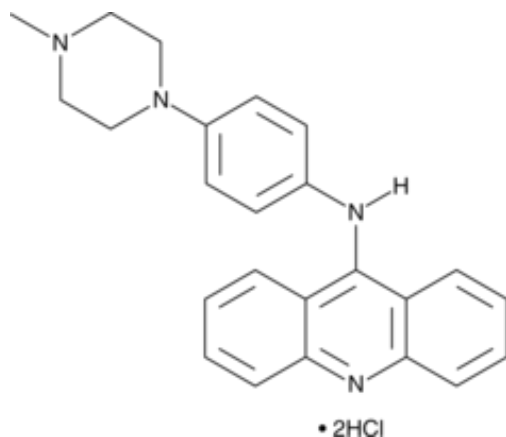
Formula C24H24N4·2HCl M.Wt 441.4

Solubility H_2O : 12.5 mg/mL (28.32 mM; Need ultrasonic); DMSO : 5 mg/mL (11.33 mM; ultrasonic and adjust pH to 5 with NaOH) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

JP-1302 is an antagonist of α_2 -adrenergic receptors (α_2 -ARs) that is selective for α_2C -ARs over α_2A - and α_2B -ARs (K_{is} = 28, 3,150, and 1,470 nM, respectively). It reduces immobility time in the forced swim test in mice when administered at doses of 1, 3, and 10 μ mol/kg. JP-1302 (5 mg/kg) reverses phencyclidine-induced decreases in prepulse inhibition of the acoustic startle response in rats. It dose-dependently reduces haloperidol-induced bradykinesia and catalepsy in mice. JP-1302 (0.3

Caution: Product has not been fully validated for medical applications. For research use only.

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mg/kg) also increases systolic blood pressure in rats.

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