

JDTic (dihydrochloride)

Catalog No: tcsc0538



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg



Specifications

CAS No:

785835-79-2

Formula:

$C_{28}H_{41}Cl_2N_3O_3$

Pathway:

GPCR/G Protein;Neuronal Signaling

Target:

Opioid Receptor;Opioid Receptor

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

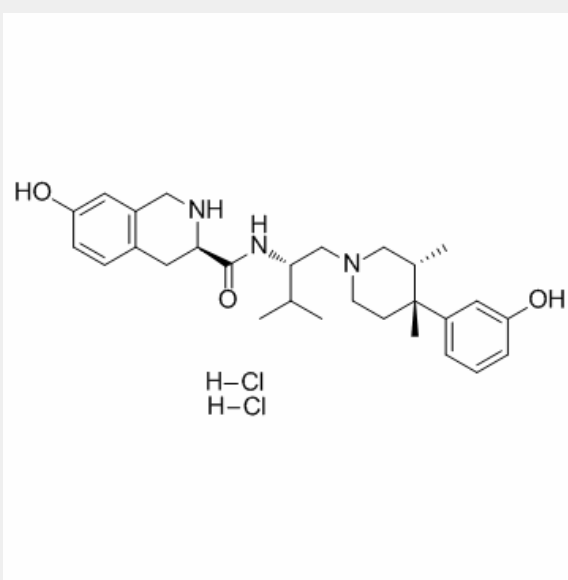
538.55

Product Description

JDTic (dihydrochloride) is a potent antagonist of **kappa-opioid receptors (KOR)**, blocking the κ-agonist U50, 488-induced antinociception.

In Vivo:

JDtic (2.5-16 mg/kg, s.c.) dose-dependently blocks the antinociceptive response of nicotine in the tail-flick test but has no effect in the hot-plate assay or body temperature assessments at any dose tested in the mice injected with nicotine^[1]. JDtic (3 mg/kg, i.p.) is capable of reversing anxiety-like behavior in the rat model of hangover anxiety. JDtic (10 mg/kg, i.p.) decreases alcohol self-administration, suppresses cue-induced reinstatement of alcohol seeking, and specifically blocks the effects of a KOR agonist at the 2 h pretreatment time point^[2]. JDtic (30 mg/kg, i.g.) significantly blocks U50,488-induced diuresis immediately in rats^[3].



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