

# Meptazinol (hydrochloride)

Catalog No: tcsc1813



## Available Sizes

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

59263-76-2

**Formula:**

$C_{15}H_{24}ClNO$

**Pathway:**

GPCR/G Protein;Neuronal Signaling

**Target:**

Opioid Receptor;Opioid Receptor

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Alternative Names:**

IL-22811 hydrochloride;WY-22811 hydrochloride

**Observed Molecular Weight:**

269.81

## Product Description

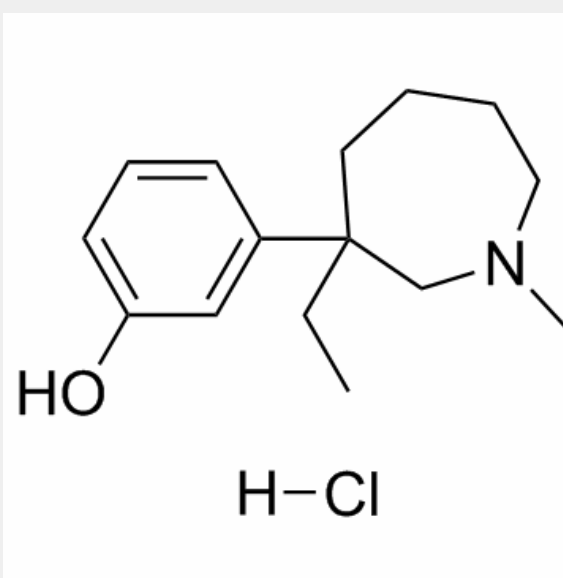
Meptazinol Hcl(WY-22811 Hcl) is a unique centrally active opioid analgesic.

IC50 Value:

Target: Opioid Receptor

in vitro: Meptazinol inhibits a portion of 3H-labeled opiate and opioid peptide binding quite potently, with IC50 value under 1 nM [1].

in vivo: Given at equianalgesic doses, morphine (3.5 mg/kg i.v.) significantly lowers the pO<sub>2</sub> over 20 mm Hg and raises the pCO<sub>2</sub> over 10 mm Hg as measured in arterial blood samples, whereas meptazinol (10 mg/kg i.v.) has no significant effects on either [1]. The group receiving meptazinol demonstrated no cardiovascular changes although bispectral index dropped by an additional 19% when compared to 1 min after barbiturate injection [2]. Rapid and significant levels of MEP in plasma and CSF can be achieved after nasal administration whereas the oral administration resulted in considerably lower drug concentrations [3].



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