Product Name: Meptazinol hydrochloride

CAS No.: 59263-76-2

Cat. No.: HY-17467A

MWt: 269.81

Formula: C15H24ClNO

Purity : >98%

Solubility: DMSO

Mechanisms: Pathways: GPCR/G protein; Target: Opioid Receptor
Pathways: Neuronal Signaling; Target: Opioid Receptor

Biological Activity:
Meptazinol HCl (WY-22811 Hcl) is a unique centrally active opioid analgesic.

IC50 Value: < 1 nM [1]

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 pO2 over 20 mm Hg and raises the pCO2 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...

References:

Caution: Not fully tested. For research purposes only

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