(+)-N-Allylnormetazocine hydrochloride

Cat. No.: HY-101376

CAS No.: 133005-41-1

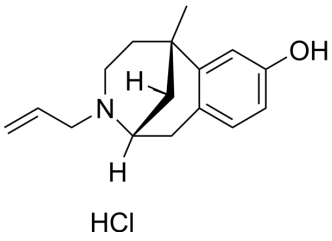
Molecular Formula: $C_{17}H_{24}ClNO$

Molecular Weight: 293.83

Target: Opioid Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: 4°C, stored under nitrogen, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 100 mg/mL (340.33 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.4033 mL	17.0166 mL	34.0333 mL
	5 mM	0.6807 mL	3.4033 mL	6.8067 mL
	10 mM	0.3403 mL	1.7017 mL	3.4033 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

(+)-N-Allylnormetazocine ((+)-SKF 10047) hydrochloride is a benzomorphan opioid with psychotomi metic effects. (+)-N-Allylnormetazocine hydrochloride is an opioid receptor antagonist with K_i values of 300 nM and 27 μM for σ1 and σ2 opioid receptors, respectively. (+)-N-Allylnormetazocine hydrochloride can be used for the research of neurological disease[1][2].

In Vitro

(+)-N-Allylnormetazocine hydrochloride (1 nM) inhibits μ, δ and κ opioid receptors of 28.5%, 2.5% and 31%, respectively[1].
(+)-N-Allylnormetazocine hydrochloride shows K_i values of 300 nM and 27 μM for σ1 and σ2 opioid receptors[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

(+)-N-Allylnormetazocine hydrochloride (0.3, 1, 3 , 10 and 30 mg/kg; intraperitoneal injection, 10 minutes before each session) dose-dependently increases the response made on the lever appropriate for dissociative anesthetics phencyclidine (PCP) in rats with PCP or saline[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. May EL, et al. Synthesis and in vitro and in vivo activity of (-)-(1R,5R,9R)- and (+)-(1S,5S,9S)-N-alkenyl-, -N-alkynyl-, and -N-cyanoalkyl-5, 9-dimethyl-2'-hydroxy-6,7-benzomorphan homologues. J Med Chem. 2000 Dec 28;43(26):5030-6.

[2]. Brady KT, et al. Stereoisomers of N-allylnormetazocine: phencyclidine-like behavioral effects in squirrel monkeys and rats. Science. 1982 Jan 8;215(4529):178-80.

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