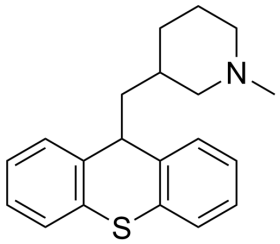
Metixene hydrochloride hydrate

Cat. No.:	HY-120081A
CAS No.:	7081-40-5
Molecular Formula:	$C_{20}H_{26}ClNOS$
Molecular Weight:	363.94
Target:	Others
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



HCl H_2O

SOLVENT & SOLUBILITY

In Vitro

DMSO : 77.5 mg/mL (212.95 mM; Need ultrasonic)
H_2O : 10 mg/mL (27.48 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.7477 mL	13.7385 mL	27.4771 mL
	5 mM	0.5495 mL	2.7477 mL	5.4954 mL
	10 mM	0.2748 mL	1.3739 mL	2.7477 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.25 mg/mL (6.18 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.25 mg/mL (6.18 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.25 mg/mL (6.18 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Metixene (Piperidine) hydrochloride hydrate is an anticholinergic and antiparkinsonian agent. Metixene hydrochloride hydrate potently inhibits binding of quinuclidinyl benzilate (QNB) with the muscarinic receptor, IC_{50} and K_i values of 55 nM and 15 nM, respectively. Metixene hydrochloride hydrate can be used for the research of parkinsonian[1][2][3].

In Vitro

Metixene hydrochloride hydrate can potentially inhibit the binding of QNB with the muscarinic receptor IC_{50} and K_i values of 55 nM and 15 nM, respectively[3].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- bioRxiv. 2020 May.

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REFERENCES

[1]. J. Hagenah, et al. Exogenous levodopa is not toxic to elderly subjects with non-parkinsonian movement disorders: further clinical evidence. , 106(3-4), 301–307. doi:10.1007/s007020050159

[2]. S L Levin, et al. Dualism in the effect of cholinolytics upon the human parotid gland deprived of parasympathetic control. Int J Clin Pharmacol Res. 1986;6(5):429-39.

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

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