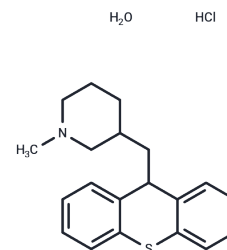


Metixene hydrochloride hydrate

Chemical Properties

CAS No. : 7081-40-5
 Formula: C₂₀H₂₆ClNOS
 Molecular Weight: 363.95
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|----------------------------|--|
| Description | Metixene hydrochloride hydrate has potential anticholinergic activity and inhibits the binding of quinine ring benzoate (QNB) to muscarine receptors, with IC ₅₀ and K _i values of 55 nM and 15 nM, respectively. Metixene hydrochloride hydrate can be used to prevent and treat Parkinson's disease. |
| Targets(IC ₅₀) | Others,AChR |
| In vitro | Metixene hydrochloride hydrate, with IC ₅₀ and K _i values of 55 nM and 15 nM, respectively, has the potential to inhibit the binding of QNB with the muscarinic receptor [1]. |

Solubility Information

| | |
|---------------------|---|
| Solubility | H ₂ O: 5 mg/mL (13.74 mM),Sonication is recommended. DMSO: 70 mg/mL (192.33 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.5 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.7476 mL | 13.7382 mL | 27.4763 mL |
| 5 mM | 0.5495 mL | 2.7476 mL | 5.4953 mL |
| 10 mM | 0.2748 mL | 1.3738 mL | 2.7476 mL |
| 50 mM | 0.055 mL | 0.2748 mL | 0.5495 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

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.

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