

Cimoxatone

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 73815-11-9 |
| Formula: | C ₁₉ H ₁₈ N ₂ O ₄ |
| Molecular Weight: | 338.36 |
| 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

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|---------------|--|
| Description | Cimoxatone (MD 780515) is a reversible, orally active inhibitor of type A monoamine oxidase (MAO-A) that can enhance the anorexic effect of MAO-A. |
| Targets(IC50) | Monoamine Oxidase |
| In vivo | In rats, Cimoxatone (20 mg/kg, oral) enhances the anorectic effect of 5-HT (1 mg/kg, subcutaneous) [1]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.9554 mL | 14.7772 mL | 29.5543 mL |
| 5 mM | 0.5911 mL | 2.9554 mL | 5.9109 mL |
| 10 mM | 0.2955 mL | 1.4777 mL | 2.9554 mL |
| 50 mM | 0.0591 mL | 0.2955 mL | 0.5911 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

- Fletcher PJ, et al. Enhancement of 5-HT-induced anorexia: a test of the reversibility of monoamine oxidase inhibitors. *Psychopharmacology*. 1989;98(2):265-268.
- Rovei V, Mitchard M, Strolin Benedetti M, Kendall MJ. Pharmacokinetic and relative bioavailability studies of cimoxatone in humans. *Int J Clin Pharmacol Ther Toxicol*. 1984 Jan;22(1):56-62. PubMed PMID: 6698662.
- Rovei V, Chanoine F, Strolin Benedetti M, Zini R, Tillement JP. Plasma protein binding of the reversible type A MAO inhibitor cimoxatone (MD 780515). *Biochem Pharmacol*. 1983 Aug 1;32(15):2303-8. PubMed PMID: 6192825.
- Fowler CJ, Strolin Benedetti M, Rovei V. Estimation of the elimination half-life of the monoamine oxidase inhibitor cimoxatone in rat brain on the basis of ex vivo inhibition data. *Eur J Drug Metab Pharmacokinet*. 1983 Oct-Dec;8(4):389-93. PubMed PMID: 6673976.

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