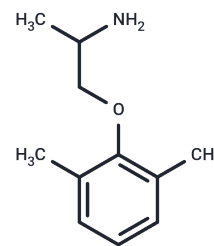


Mexiletine

Chemical Properties

CAS No. :	31828-71-4
Formula:	C ₁₁ H ₁₇ NO
Molecular Weight:	179.26
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	Mexiletine is a non-selective voltage-gated sodium channel blocker. It is a medicine in the class of IB anti-arrhythmic. Mexiletine may also be used in patients experiencing refractory pain and is effective to treat muscle stiffness resulting from myotonic dystrophy or non-dystrophic myotonias.
Targets(IC50)	Others,Sodium Channel

Solubility Information

Solubility	H ₂ O: Insoluble, DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.5785 mL	27.8924 mL	55.7849 mL
5 mM	1.1157 mL	5.5785 mL	11.157 mL
10 mM	0.5578 mL	2.7892 mL	5.5785 mL
50 mM	0.1116 mL	0.5578 mL	1.1157 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

Catalano A, Carocci A, Sinicropi MS. Mexiletine metabolites: a review. *Curr Med Chem*. 2015;22(11):1400-13. Review. PubMed PMID: 25723511.

Gao Y, Xue X, Hu D, Liu W, Yuan Y, Sun H, Li L, Timothy KW, Zhang L, Li C, Yan GX. Inhibition of late sodium current by mexiletine: a novel pharmacotherapeutical approach in timothy syndrome. *Circ Arrhythm Electrophysiol*. 2013 Jun;6(3):614-22. doi: 10.1161/CIRCEP.113.000092. Epub 2013 Apr 11. Review. PubMed PMID: 23580742.

Marmura MJ. Intravenous lidocaine and mexiletine in the management of trigeminal autonomic cephalalgias. *Curr Pain Headache Rep*. 2010 Apr;14(2):145-50. doi: 10.1007/s11916-010-0098-6. Review. PubMed PMID: 20425204.

Ebell MH. Systemic lidocaine or mexiletine for neuropathic pain. *Am Fam Physician*. 2006 Jul 1;74(1):79. Review. PubMed PMID: 16848381.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481