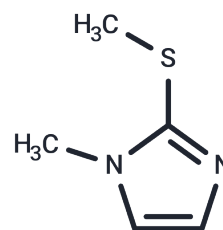


1-Methyl-2-(Methylthio)imidazole

Chemical Properties

CAS No. :	14486-52-3
Formula:	C ₅ H ₈ N ₂ S
Molecular Weight:	128.2
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	1-Methyl-2-(methylthio)imidazole is an impurity of Methimazole and a thiourea antithyroid agent.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 13 mg/mL (101.4 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.8003 mL	39.0016 mL	78.0031 mL
5 mM	1.5601 mL	7.8003 mL	15.6006 mL
10 mM	0.780 mL	3.9002 mL	7.8003 mL
50 mM	0.156 mL	0.780 mL	1.5601 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

- Rongjing S , Hepu L , Yue C , et al. Effects of methimazole and propylthiouracil exposure during pregnancy on the risk of neonatal congenital malformations: A meta-analysis[J]. Plos One, 2017, 12(7):e0180108.
- Lai, Shih-Wei, Lin, et al. Use of methimazole and risk of acute pancreatitis: A case-control study in Taiwan[J]. Indian journal of pharmacology, 2016.

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