

## Metoprolol acid

## Chemical Properties

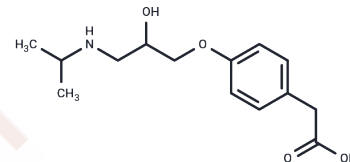
CAS No. : 56392-14-4

Formula: C<sub>14</sub>H<sub>21</sub>NO<sub>4</sub>

Molecular Weight: 267.33

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	Metoprolol acid is a urinary metoprolol metabolite and doesn't work pharmacologically.
Targets(IC50)	Others,Endogenous Metabolite

## Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7407 mL	18.7035 mL	37.407 mL
5 mM	0.7481 mL	3.7407 mL	7.4814 mL
10 mM	0.3741 mL	1.8703 mL	3.7407 mL
50 mM	0.0748 mL	0.3741 mL	0.7481 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

Borkar RM, Bhandi MM, Dubey AP, Ganga Reddy V, Komirishetty P, Nandekar PP, Sangamwar AT, Kamal A, Banerjee SK, Srinivas R. An evaluation of the CYP2D6 and CYP3A4 inhibition potential of metoprolol metabolites and their contribution to drug-drug and drug-herb interaction by LC-ESI/MS/MS. *Biomed Chromatogr.* 2016 Oct;30(10):1556-72. doi: 10.1002/bmc.3721. Epub 2016 Apr 19. PubMed PMID: 27006091.

Ryu RJ, Eyal S, Easterling TR, Caritis SN, Venkataraman R, Hankins G, Rytting E, Thummel K, Kelly EJ, Risler L, Phillips B, Honaker MT, Shen DD, Hebert MF. Pharmacokinetics of metoprolol during pregnancy and lactation. *J Clin Pharmacol.* 2016 May;56(5):581-9. doi: 10.1002/jcph.631. Epub 2015 Dec 4. PubMed PMID: 26461463; PubMed Central PMCID: PMC5564514.

Quarterman CP, Kendall MJ, Jack DB. The effect of age on the pharmacokinetics of metoprolol and its metabolites. *Br J Clin Pharmacol.* 1981 Mar;11(3):287-94. PubMed PMID: 7213530; PubMed Central PMCID: PMC1401609.

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