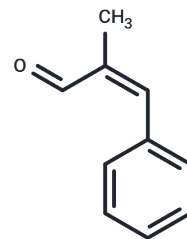


alpha-Methylcinnamaldehyde

Chemical Properties

CAS No. :	66051-14-7
Formula:	C ₁₀ H ₁₀ O
Molecular Weight:	146.19
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	alpha-Methylcinnamaldehyde is an α -substituted derivative of Cinnamaldehyde, which can be used as an inhibitor of mushroom tyrosinase.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.8404 mL	34.2021 mL	68.4041 mL
5 mM	1.3681 mL	6.8404 mL	13.6808 mL
10 mM	0.684 mL	3.4202 mL	6.8404 mL
50 mM	0.1368 mL	0.684 mL	1.3681 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

- Romagnolo A, Spina F, Poli A, Risso S, Serito B, Crotti M, Monti D, Brenna E, Lanfranco L, Varese GC. Old Yellow Enzyme homologues in *Mucor circinelloides*: expression profile and biotransformation. *Sci Rep.* 2017 Sep 21;7(1):12093. doi: 10.1038/s41598-017-12545-7. PubMed PMID: 28935878; PubMed Central PMCID: PMC5608841.
- Romagnolo A, Spina F, Brenna E, Crotti M, Parmeggiani F, Varese GC. Identification of fungal ene-reductase activity by means of a functional screening. *Fungal Biol.* 2015 Jun;119(6):487-93. doi: 10.1016/j.funbio.2015.01.006. Epub 2015 Feb 4. PubMed PMID: 25986545.
- Cui Y, Liang G, Hu YH, Shi Y, Cai YX, Gao HJ, Chen QX, Wang Q. Alpha-substituted derivatives of cinnamaldehyde as tyrosinase inhibitors: inhibitory mechanism and molecular analysis. *J Agric Food Chem.* 2015 Jan 21;63(2):716-22. doi: 10.1021/jf505469k. Epub 2015 Jan 7. PubMed PMID: 25547255.
- Stueckler C, Mueller NJ, Winkler CK, Glueck SM, Gruber K, Steinkellner G, Faber K. Bioreduction of alpha-methylcinnamaldehyde derivatives: chemo-enzymatic asymmetric synthesis of Lilial and Helional. *Dalton Trans.* 2010 Sep 28;39(36):8472-6. doi: 10.1039/c002971h. Epub 2010 May 11. PubMed PMID: 20461254.

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