

Benmoxin

Chemical Properties

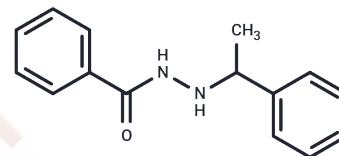
CAS No. : 7654-03-7

Formula: C₁₅H₁₆N₂O

Molecular Weight: 240.30

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	Benmoxin is a monoamine oxidase inhibitor (MAOI) that is irreversible and nonselective.
Targets(IC50)	Others, Monoamine Oxidase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1615 mL	20.8073 mL	41.6146 mL
5 mM	0.8323 mL	4.1615 mL	8.3229 mL
10 mM	0.4161 mL	2.0807 mL	4.1615 mL
50 mM	0.0832 mL	0.4161 mL	0.8323 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

Śmist M, Kwiecień H, Krawczyk M. Synthesis and antifungal activity of 2H-1,4-benzoxazin-3(4H)-one derivatives. *J Environ Sci Health B*. 2016;51(6):393-401. doi: 10.1080/03601234.2016.1142744. Epub 2016 Mar 10. PubMed PMID: 26963527.

Li C, Lu Z, Zhao C, Yang L, Fu Y, Shi K, He X, Li Z, Zu Y. Ionic-liquid-based ultrasound/microwave-assisted extraction of 2,4-dihydroxy-7-methoxy-1,4-benzoxazin-3-one and 6-methoxy-benzoxazolin-2-one from maize (*Zea mays* L.) seedlings. *J Sep Sci*. 2015 Jan;38(2):291-300. doi: 10.1002/jssc.201401081. Epub 2014 Dec 11. PubMed PMID: 25413336.

Tiekink ER, Wardell JL. 2-(2-Amino-4-nitro-phen-yl)-7-nitro-4H-3,1-benzoxazin-4-one. *Acta Crystallogr Sect E Struct Rep Online*. 2014 Jan 18;70(Pt 2):o158-9. doi: 10.1107/S1600536814000609. eCollection 2014 Feb 1. PubMed PMID: 24764879; PubMed Central PMCID: PMC3998318.

Etzerodt T, Maeda K, Nakajima Y, Laursen B, Fomsgaard IS, Kimura M. 2,4-dihydroxy-7-methoxy-2H-1,4-benzoxazin-3(4H)-one (DIMBOA) inhibits trichothecene production by *Fusarium graminearum* through suppression of Tri6 expression. *Int J Food Microbiol*. 2015 Dec 2;214:123-128. doi: 10.1016/j.ijfoodmicro.2015.07.014. Epub 2015 Jul 15. PubMed PMID: 26276561.

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