Data Sheet (Cat.No.T20066)

TargetMol
A DRUG SCREENING EXPERT

Metalaxyl

Chemical Properties

CAS No.:	57837-19-1
Formula:	C15H21NO4
Molecular Weight:	279.33
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Metalaxyl is an acylalanine fungicide with systemic function. It can be used to control Pythium in a number of vegetable crops, and Phytophthora in peas.

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.580 mL	17.900 mL	35.800 mL
5 mM	0.716 mL	3.580 mL	7.160 mL
10 mM	0.358 mL	1.790 mL	3.580 mL
50 mM	0.072 mL	0.358 mL	0.716 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Yu W, Luo X, Qin X, Huang M, Li J, Zeng S, Zhang K, Hu D. Simultaneous determination and risk assessment of metalaxyl and azoxystrobin in potato by liquid chromatography with tandem mass spectrometry. Environ Monit Assess. 2018 May 9;190(6):335. doi: 10.1007/s10661-018-6717-0. PubMed PMID: 29744742.
2. Staveley JP, Green JW, Nusz J, Edwards D, Henry K, Kern M, Deines AM, Brain R, Glenn B, Ehresman N, Kung T, Ralston-Hooper K, Kee F, McMaster S. Variability in Non-Target Terrestrial Plant Studies Should Inform Endpoint Selection. Integr Environ Assess Manag. 2018 May 4. doi: 10.1002/ieam.4055. [Epub ahead of print] PubMed PMID: 29729081.
3. Zhang Y, Fan Y, Zhang W, Wu G, Wang J, Cheng F, Zheng J, Wang Z. Bio-preparation of (R)-DMPM using whole cells of Pseudochrobactrum asaccharolyticum WZZ003 and its application on kilogram-scale synthesis of fungicide (R)-metalaxyl. Biotechnol Prog. 2018 Apr 25. doi: 10.1002/btpr.2638. [Epub ahead of print] PubMed PMID: 29694734.
4. Gu J, Ji C, Yue S, Shu D, Su F, Zhang Y, Xie Y, Zhang Y, Liu W, Zhao M. Enantioselective Effects of Metalaxyl Enantiomers in Adolescent Rat Metabolic Profiles Using NMR-Based Metabolomics. Environ Sci Technol. 2018 May 1;52(9):5438-5447. doi: 10.1021/acs.est.7b06540. Epub 2018 Apr 23. PubMed PMID: 29683314.

Inhibitors · Natural Compounds · Compound Libraries

Tel:781-999-4286 E-mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481