

Azoxystrobin

Chemical Properties

CAS No.:	131860-33-8
Formula:	C ₂₂ H ₁₇ N ₃ O ₅
Molecular Weight:	403.39
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Azoxystrobin, a strobilurin fungicide, inhibits mitochondrial respiration by blocking electron transfer between cytochromes b and c1.
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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	2.479 mL	12.395 mL	24.790 mL
5 mM	0.496 mL	2.479 mL	4.958 mL
10 mM	0.248 mL	1.239 mL	2.479 mL
50 mM	0.050 mL	0.248 mL	0.496 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 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Gautam M, Fomsgaard IS. Liquid chromatography-tandem mass spectrometry method for simultaneous quantification of azoxystrobin and its metabolites, azoxystrobin free acid and 2-hydroxybenzonitrile, in greenhouse-grown lettuce. Food Addit Contam Part A Chem Anal Control Expo Risk Assess. 2017 Dec;34(12):2173-2180. doi: 10.1080/19440049.2017.1382729. Epub 2017 Oct 10. PubMed PMID: 28934012.
2. Kunz JL, Ingersoll CG, Smalling KL, Elskus AA, Kuivila KM. Chronic toxicity of azoxystrobin to freshwater amphipods, midges, cladocerans, and mussels in water-only exposures. Environ Toxicol Chem. 2017 Sep;36(9):2308-2315. doi: 10.1002/etc.3764. Epub 2017 Mar 15. PubMed PMID: 28181697.
3. Wang H, Wang J, Chen Q, Wang M, Hsiang T, Shang S, Yu Z. Metabolic effects of azoxystrobin and kresoxim-methyl against Fusarium kyushuense examined using the Biolog FF MicroPlate. Pestic Biochem Physiol. 2016 Jun;130:52-58. doi: 10.1016/j.pestbp.2015.11.013. Epub 2015 Nov 30. PubMed PMID: 27155484.

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481