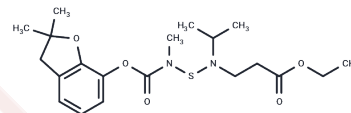


Benfuracarb

Chemical Properties

CAS No. :	82560-54-1
Formula:	C ₂₀ H ₃₀ N ₂ O ₅ S
Molecular Weight:	410.53
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	Benfuracarb, a benzofuranyl methylcarbamate based insecticide, is used to control springtails, aphids and other pests usually on beet crops.
Targets(IC50)	Others

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	2.4359 mL	12.1794 mL	24.3588 mL
5 mM	0.4872 mL	2.4359 mL	4.8718 mL
10 mM	0.2436 mL	1.2179 mL	2.4359 mL
50 mM	0.0487 mL	0.2436 mL	0.4872 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

Eren Y, Erdoğmuş SF, Akyıl D, Özkara A. Mutagenic and cytotoxic activities of benfuracarb insecticide. *Cytotechnology*. 2016 Aug;68(4):637-43. doi: 10.1007/s10616-014-9811-3. Epub 2014 Nov 8. PubMed PMID: 25381170; PubMed Central PMCID: PMC4960112.

Abass K, Reponen P, Mattila S, Rautio A, Pelkonen O. Human variation and CYP enzyme contribution in benfuracarb metabolism in human in vitro hepatic models. *Toxicol Lett*. 2014 Jan 13;224(2):300-9. doi: 10.1016/j.toxlet.2013.08.023. Epub 2013 Sep 7. PubMed PMID: 24016712.

Abass K, Reponen P, Mattila S, Rautio A, Pelkonen O. Comparative metabolism of benfuracarb in in vitro mammalian hepatic microsomes model and its implications for chemical risk assessment. *Toxicol Lett*. 2014 Jan 13;224(2):290-9. doi: 10.1016/j.toxlet.2013.08.009. Epub 2013 Aug 16. PubMed PMID: 23958702.

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