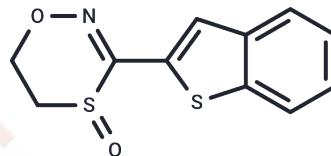


## Bethoxazin

## Chemical Properties

CAS No. :	163269-30-5
Formula:	C <sub>11</sub> H <sub>9</sub> NO <sub>2</sub> S <sub>2</sub>
Molecular Weight:	251.32
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	Bethoxazin is a new broad spectrum industrial microbicide.
Targets(IC50)	Antibacterial
In vitro	Bethoxazin may exert its microbicidal action by reacting with sensitive endogenous sulfhydryl biomolecules of microbial cells. The inhibitory activity of bethoxazin on topoisomerase II may be due to its ability to react with critical free cysteine sulfhydryl groups on the enzyme.

## Solubility Information

Solubility	DMSO: 4.4 mg/mL (17.51 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.979 mL	19.895 mL	39.7899 mL
5 mM	0.7958 mL	3.979 mL	7.958 mL
10 mM	0.3979 mL	1.9895 mL	3.979 mL
50 mM	0.0796 mL	0.3979 mL	0.7958 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

Chee G L , Bhattarai B , Gietz R D , et al. Chemical reactivity and microbicidal action of bethoxazin[J]. Bioorganic & Medicinal Chemistry, 2012, 20(4):1494-1501.

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