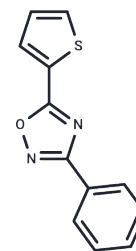


## Tioxazafen

## Chemical Properties

CAS No. :	330459-31-9
Formula:	C <sub>12</sub> H <sub>8</sub> N <sub>2</sub> O <sub>2</sub> S
Molecular Weight:	228.27
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	Tioxazafen is a disubstituted oxadiazole, and is a broad-spectrum seed treatment nematicide.
Targets(IC50)	Parasite
In vitro	Tioxazafen demonstrates superior efficacy in controlling soybean cyst (SCN [H. glycines]), root-knot (RKN [M. incognita]), and reniform nematodes in soybeans; lesion, root-knot, and needle nematodes in corn; and reniform and root-knot nematodes in cotton. It directly targets and neutralizes RKN (M. incognita) and SCN (H. glycines), matching the effectiveness of the active nematicidal components in existing commercial formulations in inducing nematode mortality.

## Solubility Information

Solubility	DMSO: 60 mg/mL (262.85 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	4.3808 mL	21.9039 mL	43.8078 mL
5 mM	0.8762 mL	4.3808 mL	8.7616 mL
10 mM	0.4381 mL	2.1904 mL	4.3808 mL
50 mM	0.0876 mL	0.4381 mL	0.8762 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

Slomczynska U , South M S , Bunkers G , et al. Tioxazafen: A new broad-spectrum seed treatment nematicide[C]// Abstracts of Papers, 248th ACS National Meeting & Exposition, San Francisco, CA, United States, August 10-14. 2014.

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