Data Sheet (Cat.No.TYD-00501)

TargetMol

Thidiazuron

Chemical Properties

CAS No. : 51707-55-2

Formula: C9H8N4OS

Molecular Weight: 220.25

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	Thidiazuron is a biochemical reagent that can be used as a biomaterial for life science related research and as a sulfonylation reagent for organic synthesis and drug discovery.
Targets(IC50)	Others
In vitro	Method: The cytotoxicity of thidiazuron was evaluated in normal Chinese hamster ovary cells using the sulforhodamine B assay. Rresult: Thidiazuron exhibited an IC50 of 18.3 ± 1.8 μM against normal Chinese hamster ovary cells.[1]

Solubility Information

Solubility	DMSO: 80.00 mg/mL (363.22 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.5403 mL	22.7015 mL	45.403 mL
5 mM	0.9081 mL	4.5403 mL	9.0806 mL
10 mM	0.454 mL	2.2701 mL	4.5403 mL
50 mM	0.0908 mL	0.454 mL	0.9081 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

Zhang Z, et al. Identification, synthesis, and safety assessment of thidiazuron [1-phenyl-3-(1,2,3-thidiazol-5-yl) urea] and its metabolites in kiwifruits. J Agric Food Chem. 2017;65(51):11273-11279.

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