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Produktinformation

- Forschungsprodukte & Biochemikalien
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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Thiram-d_{12}

Cat. No.: HY-132426S

CAS No.: 69193-86-8

Molecular Formula: $C_6D_{12}N_2S_4$

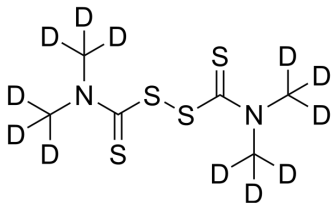
Molecular Weight: 252.51

Target: Fungal; Reactive Oxygen Species

Pathway: Anti-infection; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (198.01 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.9602 mL	19.8012 mL	39.6024 mL
	5 mM	0.7920 mL	3.9602 mL	7.9205 mL
	10 mM	0.3960 mL	1.9801 mL	3.9602 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1.25 mg/mL (4.95 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1.25 mg/mL (4.95 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Thiram-d_{12} is the deuterium labeled Thiram. Thiram, a fungicides, is widely used on seeds and as foliar agent on turf, vegetables and fruit.Thiram acts as a vulcanization accelerator in the rubber industry[1]. Thiram induces antioxidant defense and oxidative stress. Thiram can act as a prooxidant resulting in the formation of reactive oxygen species (ROS)[2].

REFERENCES

[1]. Jan Siwiec, et al. Thiram-Toxic inhalational lung injury. Ann Agric Environ Med. 2019 Dec 19;26(4):672-673.

[2]. Chahrazad Belaid, et al. Assessing the effects of Thiram to oxidative stress responses in a freshwater bioindicator cladoceran (Daphnia magna). Chemosphere. 2021 Apr;268:128808.

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