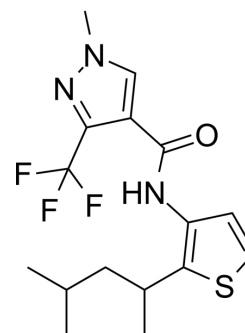


## Penthiopyrad

Cat. No.:	HY-17520		
CAS No.:	183675-82-3		
Molecular Formula:	C <sub>16</sub> H <sub>20</sub> F <sub>3</sub> N <sub>3</sub> OS		
Molecular Weight:	359.41		
Target:	Fungal		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (278.23 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.7823 mL	13.9117 mL	27.8234 mL
	5 mM	0.5565 mL	2.7823 mL	5.5647 mL
	10 mM	0.2782 mL	1.3912 mL	2.7823 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.08 mg/mL (5.79 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (5.79 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Penthiopyrad (MTF-753) is a chiral carboxamide antifungal agent with a broad spectrum of fungicidal activity. Penthiopyrad can be used for controlling foliar and soil-borne plants diseases on a broad range of agricultural crops and turfgrass<sup>[1]</sup>.

### REFERENCES

- [1]. Zhengyi Liu, et al. Stereoselective degradation behavior of the novel chiral antifungal agrochemical penthiopyrad in soil. Environ Res. 2021 Mar;194:110680.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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