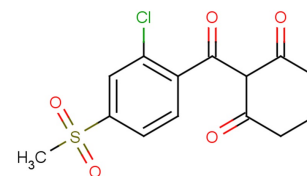


Data Sheet (Cat.No.T16951)

Sulcotrione

Chemical Properties

CAS No.:	99105-77-8
Formula:	C ₁₄ H ₁₃ ClO ₅ S
Molecular Weight:	328.77
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Sulcotrione is a β -triketone herbicide. It also can inhibit hydroxyphenylpyruvate dioxygenase.
Targets(IC ₅₀)	HPPD: None
In vitro	Sulcotrione behaves as time-independent reversible inhibitor. However it is the first time that such behavior is observed using a purified hydroxyphenylpyruvate dioxygenase and a synthetic β -triketone, namely sulcotrione. Inhibition kinetic analysis, performing with 3 hydroxyphenylpyruvate and sulcotrione concentrations, show that the apparent KM increasing with sulcotrione concentration [1].

Solubility Information

Solubility	DMSO: 100 mg/mL (304.16 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.042 mL	15.208 mL	30.416 mL
5 mM	0.608 mL	3.042 mL	6.083 mL
10 mM	0.304 mL	1.521 mL	3.042 mL
50 mM	0.061 mL	0.304 mL	0.608 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Rocaboy-Faquet E, et al. A novel amperometric biosensor for β -triketone herbicides based on hydroxyphenylpyruvate dioxygenase inhibition: A case study for sulcotrione. *Talanta*. 2016;146:510-6.

Inhibitors · Natural Compounds · Compound Libraries

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