

Produktinformation



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Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien T. +43(0)1 489 3961-0 F. +43(0)1 489 3961-7 <u>mail@szabo-scandic.com</u> www.szabo-scandic.com

Sulcotrione

®

MedChemExpress

Cat. No.:	HY-107368		
CAS No.:	99105-77-8		
Molecular Formula:	C14H13ClO2S		
Molecular Weight:	328.77		
Target:	Reactive Oxygen Species		
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

SOLVENT & SOLUBILITY

Preparing Stock Solutions		Solvent Mass Concentration	1 mg	5 mg	10 mg			
	1 mM	3.0416 mL	15.2082 mL	30.4164 mL				
		5 mM	0.6083 mL	3.0416 mL	6.0833 mL			
	10 mM	0.3042 mL	1.5208 mL	3.0416 mL				
	Please refer to the solubility information to select the appropriate solvent.							
Solubility: ≥ 2. Add each sol Solubility: ≥ 3. Add each sol		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.60 mM); Clear solution						
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.60 mM); Clear solution						
		olvent one by one: 10% DMSO >> 90% corn oil ≥ 2.5 mg/mL (7.60 mM); Clear solution						

BIOLOGICAL ACTIVITY			
Description	Sulcotrione is a β -triketone herbicide which can inhibit hydroxyphenylpyruvate dioxygenase (HPPD).		
IC_{50} & Target	HPPD ^[1]		
In Vitro	The results show that sulcotrione behaves as time-independent reversible inhibitor. Similar results are previously described for natural β-triketones, and for the synthetic β-triketone NTBC. However it is the first time that such behavior is observed using a purified hydroxyphenylpyruvate dioxygenase (HPPD) and a synthetic β-triketone, namely sulcotrione. Inhibition		

Product Data Sheet

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kinetic analysis, performing with 3 hydroxyphenylpyruvate (HPP) and sulcotrione concentrations, show that the apparent K M increasing with sulcotrione concentration. This behavior is consistent with the data present in the literature, describing sulcotrione as a competitive inhibitor of HPPD^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL	
Kinase Assay ^[1]	Electrochemical behavior of sulcotrione at 0.2 mg/L is characterized by cyclic voltammetry. Preliminary HPPD inhibition assays are performed by incubating the enzyme during time periods ranging from 2 to 10 min in presence of sulcotrione at differnt concentrations ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Rocaboy-Faquet E, et al. A novel amperometric biosensor for ß-triketone herbicides based on hydroxyphenylpyruvatedioxygenase inhibition: A case study for sulcotrione. Talanta. 2016;146:510-6.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA