

Diorcinol

Chemical Properties

CAS No. :	20282-75-1
Formula:	C ₁₄ H ₁₄ O ₃
Molecular Weight:	230.26
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	Diorcinol is a potent SHP1 inhibitor with an IC ₅₀ value of 0.96 μM. Diorcinol can be isolated from <i>Aspergillus sydowii</i> and demonstrates effective blood-brain barrier penetration. Diorcinol is applicable to investigations involving SHP1-mediated signaling pathways, central nervous system pharmacology, and diabetes-associated metabolic regulation.
Targets(IC ₅₀)	Phosphatase
In vitro	Diorcinol (30 μM, 24 h) shows not only a cytotoxic effect against K562 cell line but also inhibits NFκB[1]. Diorcinol exhibits a respective inhibition of 56% and 97% to the sleeping sickness causing parasite <i>Trypanosoma brucei brucei</i> [1].

Solubility Information

Solubility	DMSO: 100 mg/mL (434.29 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.3429 mL	21.7146 mL	43.4292 mL
5 mM	0.8686 mL	4.3429 mL	8.6858 mL
10 mM	0.4343 mL	2.1715 mL	4.3429 mL
50 mM	0.0869 mL	0.4343 mL	0.8686 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

Tawfike AF, et al. Isolation of anticancer and anti-trypanosome secondary metabolites from the endophytic fungus *Aspergillus flocculus* via bioactivity guided isolation and MS based metabolomics. *J Chromatogr B Analyt Technol Biomed Life Sci.* 2019 Feb 1;1106-1107:71-83.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481