



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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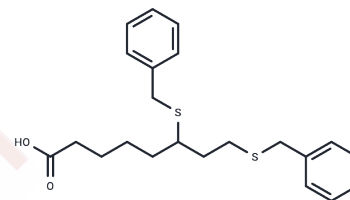
www.szabo-scandic.com

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Devimistat

Chemical Properties

CAS No. : 95809-78-2
 Formula: C₂₂H₂₈O₂S₂
 Molecular Weight: 388.59
 Appearance: no data available
 Storage: store at low temperature
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Devimistat (6,8-Bis(benzylthio)octanoic acid), a lipoate analog, inhibits mitochondrial enzymes pyruvate dehydrogenase (PDH) and α -ketoglutarate dehydrogenase, disrupts tumor cell mitochondrial metabolism. It has potential chemopreventive and antineoplastic activities, and has been used in trials studying the treatment of Cancer, Lymphoma, Solid Tumors, Advanced Cancer, and Pancreatic Cancer, among others.
Targets(IC50)	Apoptosis,Dehydrogenase,Mitochondrial Metabolism
In vitro	In vitro, Devimistat produces the selective toxicity against several tumor cell lines including H460 human lung cancer cells and Saos-2 human sarcoma cells with EC ₅₀ of 120 μ M and 120 μ M, respectively. Devimistat disrupts H460 cancer cell mitochondrial metabolism including inhibition of PDH complex activity and loss of mitochondrial membrane potential in a time- and drug dose-dependent fashion. In addition, Devimistat (240 μ M) also induces both apoptotic and non-apoptotic cell death in H460 human lung cancer and Saos-2 human sarcoma cells. [1]
In vivo	Devimistat (25 mg/kg) has potent anticancer activity in a human tumor xenograft model of a pancreatic tumor cell (BxPC-3). Similarly, Devimistat (10 mg/kg) also produces significant tumor growth inhibition of H460 human non-small cell lung carcinoma in mouse model. Besides, Devimistat produces little or no side-effect toxicity in expected therapeutic dose ranges in large animal models and has the maximum tolerated dose of 100 mg/kg in mice. [1]

Solubility Information

Solubility	Ethanol: 78 mg/mL (200.72 mM), DMSO: 45 mg/mL (115.8 mM),Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble),(< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5734 mL	12.867 mL	25.7341 mL
5 mM	0.5147 mL	2.5734 mL	5.1468 mL
10 mM	0.2573 mL	1.2867 mL	2.5734 mL
50 mM	0.0515 mL	0.2573 mL	0.5147 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.

Reference

Zachar Z, et al. J Mol Med (Berl). 2011, 89(11), 1137-1148.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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