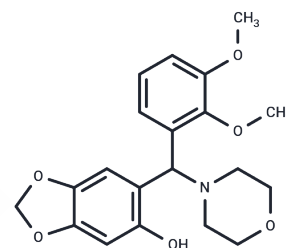


Frataxin-IN-1

Chemical Properties

CAS No. :	102616-64-8
Formula:	C ₂₀ H ₂₃ N ₁ O ₆
Molecular Weight:	373.4
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Frataxin-IN-1 is an inhibitor of the mitochondrial protein Frataxin, with an inhibitory concentration (IC ₅₀) value of 45 μM. Compound (+)-11 is utilized in research focused on Friedreich's ataxia (FRDA), a neurodegenerative disorder associated with impaired mitochondrial function and iron-sulfur cluster biogenesis.
Targets(IC ₅₀)	Others, Ferroptosis

Solubility Information

Solubility	H ₂ O: <1 mg/mL (insoluble) DMSO: 100 mg/mL (267.81 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6781 mL	13.3905 mL	26.7809 mL
5 mM	0.5356 mL	2.6781 mL	5.3562 mL
10 mM	0.2678 mL	1.339 mL	2.6781 mL
50 mM	0.0536 mL	0.2678 mL	0.5356 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

Lavecchia A, et al. Discovery of a novel small molecule inhibitor targeting the frataxin/ubiquitin interaction via structure-based virtual screening and bioassays. J Med Chem. 2013 Apr 11;56(7):2861-73.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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