

Glutathione arsenoxide hydrochloride

Chemical Properties

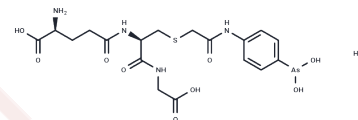
CAS No. :

Formula: C₁₈H₂₆AsClN₄O₉S

Molecular Weight: 584.86

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	Glutathione arsenoxide hydrochloride (Glutathione arsenoxide hydrochloride(1271726-51-2 Free base)) is a potentially active anti-cancer molecule and inhibitor of tumour metabolism. glutathione arsenoxide hydrochloride targets the mitochondrial inner membrane adenine nucleotidyl transferase (ANT), which inhibits cell proliferation and promotes apoptosis. Glutathione arsenoxide hydrochloride can be used to recognize cell surface proteins such as protein disulfide isomerases.
Targets(IC50)	Apoptosis,AChR

Solubility Information

Solubility	DMSO: 5.85 mg/mL (10 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	1.7098 mL	8.5491 mL	17.0981 mL
5 mM	0.342 mL	1.7098 mL	3.4196 mL
10 mM	0.171 mL	0.8549 mL	1.7098 mL
50 mM	0.0342 mL	0.171 mL	0.342 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

Park D, et al. The tumour metabolism inhibitors GSAO and PENAO react with cysteines 57 and 257 of mitochondrial adenine nucleotide translocase. *Cancer Cell Int.* 2012 ; 12(1):11.

Habeck M. Australian scientists design novel antiangiogenic weapon. *The Lancet Oncology.* 2000 ; 1(4): 199.

Dilda PJ, et al. Para to ortho repositioning of the arsenical moiety of the angiogenesis inhibitor 4-(N-(S-glutathionylacetyl)amino)phenylarsenoxide results in a markedly increased cellular accumulation and antiproliferative activity. *Cancer Res.* 2005 ; 65(24):11729-11734.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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