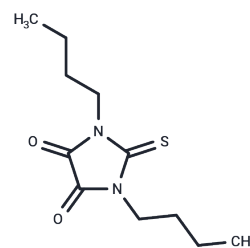


## Merodantoin

## Chemical Properties

CAS No. :	143413-73-4
Formula:	C <sub>11</sub> H <sub>18</sub> N <sub>2</sub> O <sub>2</sub> S
Molecular Weight:	242.34
Storage:	Pure form: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Merodantoin is an apoptosis inducer and triggers cell apoptosis associated with ROS-dependent autophagy. Merodantoin targets cancer cells expressing KRAS mutations involved in Akt-dependent ROS production.
Targets(IC50)	Apoptosis,Others,Ras,Kras

## Solubility Information

Solubility	DMSO: 50 mg/mL (206.32 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	4.1264 mL	20.6322 mL	41.2643 mL
5 mM	0.8253 mL	4.1264 mL	8.2529 mL
10 mM	0.4126 mL	2.0632 mL	4.1264 mL
50 mM	0.0825 mL	0.4126 mL	0.8253 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

- Iskandar K, Rezlan M, Yadav SK, Foo CH, Sethi G, Qiang Y, Bellot GL, Pervaiz S. Synthetic Lethality of a Novel Small Molecule Against Mutant KRAS-Expressing Cancer Cells Involves AKT-Dependent ROS Production. *Antioxid Redox Signal*. 2016 May 10;24(14):781-94. doi: 10.1089/ars.2015.6362. Epub 2016 Feb 26. PubMed PMID: 26714745.
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- Sharma R, Arnold L, Gulliya KS. Correlation between DNA topoisomerase II activity and cytotoxicity in pMC540 and merodantoin sensitive and resistant human breast cancer cells. *Anticancer Res*. 1995 Mar-Apr;15(2):295-304. PubMed PMID: 7762997.
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