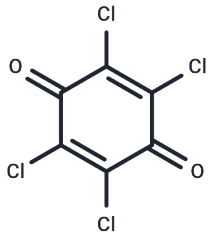
Data Sheet (Cat.No.T80673)

TargetMol

Chloranil

Chemical Properties



CAS No. : 118-75-2

Formula: C6Cl4O2

Molecular Weight: 245.88

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	Chloranil (tetrachloro-p-benzoquinone) triggers inflammation and neurological dysfunction through Toll-like receptor 4 signaling and can be used to model inflammation in mice.
Targets(IC50)	Apoptosis,Ferroptosis,Antifungal,JNK,MyD88,ROS,TLR

Solubility Information

Solubility	DMSO: 50 mg/mL (203.35 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.067 mL	20.3351 mL	40.6702 mL
5 mM	0.8134 mL	4.067 mL	8.134 mL
10 mM	0.4067 mL	2.0335 mL	4.067 mL
50 mM	0.0813 mL	0.4067 mL	0.8134 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

Fu J,et al. The acute exposure of tetrachloro-p-benzoquinone (a.k.a. chloranil) triggers inflammation and neurological dysfunction via Toll-like receptor 4 signaling: The protective role of melatonin preconditioning. Toxicology. 2017 Apr 15;381:39-50.

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