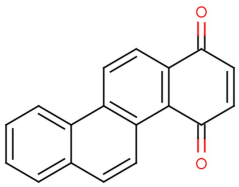
Data Sheet (Cat.No.T10007)

TargetMol
A DRUG SCREENING EXPERT

1,4-Chrysenequinone

Chemical Properties



CAS No.:	100900-16-1
Formula:	C18H10O2
Molecular Weight:	258.27
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	1,4-Chrysenequinone acts as an activator of aryl hydrocarbon receptor (AhR).
Targets(IC_{50})	AhR: None
In vitro	1,4-Chrysenequinone shows AhR ligand activity, with ECTCDD25s (concentration equivalent with 25% of TCDD max) of 9.7 nM and 1.9 μM in yeast and mouse hepatoma cell systems, respectively.

Solubility Information

Solubility	DMSO: 3.33 mg/mL (12.89 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.872 mL	19.36 mL	38.719 mL
5 mM	0.774 mL	3.872 mL	7.744 mL
10 mM	0.387 mL	1.936 mL	3.872 mL
50 mM	0.077 mL	0.387 mL	0.774 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Misaki K, et al. Aryl hydrocarbon receptor ligand activity of polycyclic aromatic ketones and polycyclic aromatic quinones. Environ Toxicol Chem. 2007 Jul;26(7):1370-9.

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