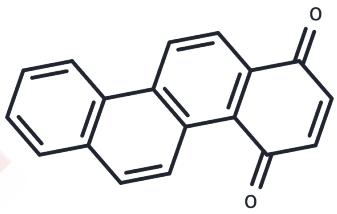
Data Sheet (Cat.No.T10007)

TargetMol

1,4-Chrysenequinone

Chemical Properties



CAS No. : 100900-16-1

Formula: C18H10O2

Molecular Weight: 258.27

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	1,4-Chrysenequinone (Chrysene-1,4-dione) is an activator of aryl hydrocarbon receptor (AhR).
Targets(IC50)	AhR
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),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8719 mL	19.3596 mL	38.7192 mL
5 mM	0.7744 mL	3.8719 mL	7.7438 mL
10 mM	0.3872 mL	1.936 mL	3.8719 mL
50 mM	0.0774 mL	0.3872 mL	0.7744 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.

Reference

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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