

Rubiadin

Chemical Properties

CAS No. : 117-02-2

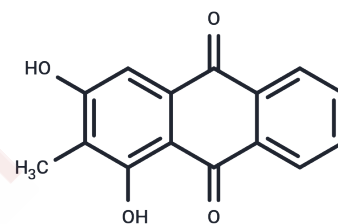
Formula: C₁₅H₁₀O₄

Molecular Weight: 254.24

Keep away from direct sunlight

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	Rubiadin (1,3-Dihydroxy-2-Methylantracene-9,10-Dione) possesses potent antioxidant property, it can prevent lipid peroxidation induced by FeSO ₄ and t-butylhydroperoxide (t-BHP) in a dose dependent manner.
Targets(IC50)	Free radical scavengers,Caspase,PARP
In vitro	Rubiadin can decrease bone loss through the inhibition of osteoclast formation, differentiation and bone resorption.
In vivo	Rubiadin has hepatoprotective effects against carbon tetrachloride (CCl ₄)-induced hepatic damage in rats. Rubiadin exhibits strong antitumor promoting activity at the concentration of 2.0 µg/ml when assayed using the inhibition test of Epstein Barr Virus (EBV) activation on Raji cells.

Solubility Information

Solubility	DMSO: 2 mg/mL (7.87 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	3.9333 mL	19.6665 mL	39.3329 mL
5 mM	0.7867 mL	3.9333 mL	7.8666 mL
10 mM	0.3933 mL	1.9666 mL	3.9333 mL
50 mM	0.0787 mL	0.3933 mL	0.7867 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

- Rumie Vittar N B, et al. Photochemotherapy using natural anthraquinones: Rubiadin and Soranjidiol sensitize human cancer cell to die by apoptosis.[J]. Photodiagnosis & Photodynamic Therapy, 2014, 11(2):182-192.
- Baghiani A, et al. Free radical scavenging and antioxidant effects of some anthraquinone derivatives.[J]. Medicinal Chemistry, 2011, 7(6):-.
- Tripathi Y B, et al, a new antioxidant from Rubia cordifolia.[J]. Indian J Biochem Biophys, 1997, 34(3):302-6.

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