3,6-Dihydroxyxanthone

Cat. No.: HY-W031510

CAS No.: 1214-24-0

Molecular Formula: $C_{13}H_8O_4$

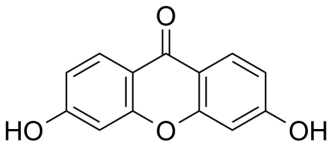
Molecular Weight: 228.2

Target: Others

Pathway: Others

Storage: 4°C, stored under nitrogen

* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (219.11 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	4.3821 mL	21.9106 mL	43.8212 mL
	5 mM	0.8764 mL	4.3821 mL	8.7642 mL
	10 mM	0.4382 mL	2.1911 mL	4.3821 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

3,6-Dihydroxyxanthone (compound 3) is a xanthone derivatives. 3,6-Dihydroxyxanthone (compound 3) has anticancer activity. 3,6-Dihydroxyxanthone (compound 3) can be used for cancer research[1].

In Vitro

3,6-Dihydroxyxanthone (compound 3) (3.906-1000 μg/mL; 24 hours) exhibits cytotoxic activity against WiDR and Vero cell lines with IC_{50} values of 785.58 and 1280.9 μM[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Cytotoxicity Assay[1]

Cell Line:	WiDR and Vero cell lines
Concentration:	3.906, 7.813, 15.625, 31.25, 62.5, 125, 250 and 500 μg/mL (WiDR cell line)7.813, 15.625, 31.25, 62.5, 125, 250, 500 and 1000 μg/mL (Vero cell line)
Incubation Time:	24 hours
Result:	Inhibited cell activity and with IC_{50} values of 785.58 and 1,280.9 μM for WiDR and Vero cell lines.

REFERENCES

[1]. Miladiyah I, et, al. Biological activity, quantitative structure-activity relationship analysis, and molecular docking of xanthone derivatives as anticancer drugs. Drug Des Devel Ther. 2018 Jan 15;12:149-158.

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