

## Xanthopurpurin

## Chemical Properties

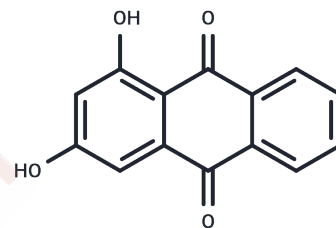
CAS No. : 518-83-2

Formula: C<sub>14</sub>H<sub>8</sub>O<sub>4</sub>

Molecular Weight: 240.21

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	Xanthopurpurin shows antiviral activity. Xanthopurpurin can effectively inhibit rotavirus multiplication by promoting virus-induced apoptosis in MA-104 cells. Xanthopurpurin shows mainly strong inhibition of collagen-induced platelet aggregation.
Targets(IC50)	MMP,HIV Protease,Platelet aggregation,Antifection
In vitro	The cytotoxicity of RCAP toward MA-104 cells was evaluated using the WST-8 assay. Colloidal gold method and real time polymerase chain reaction (qPCR) assay were used to confirm the findings of the antiviral assay. Then, 4',6-diamidino-2-phenylindole (DAPI) staining method was subsequently used to investigate the mode of death among the cells. And the representative components of aqueous extract were isolated and identified. It was shown that both the viability of MA-104 cells and the viral load were reduced with increasing concentration of the extract. DAPI staining showed that virus-induced apoptosis was the cause of the low cell viability and viral load, an effect which was accelerated with incubation in the aqueous herbal extract. The major compounds postulated to exhibit this activity were isolated from the aqueous herbal extract and identified to be compounds Xanthopurpurin and Vanillic Acid[1]

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.163 mL	20.8151 mL	41.6302 mL
5 mM	0.8326 mL	4.163 mL	8.326 mL
10 mM	0.4163 mL	2.0815 mL	4.163 mL
50 mM	0.0833 mL	0.4163 mL	0.8326 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

Sun Y, et al. In vitro Antiviral Activity of Rubia cordifolia Aerial Part Extract against Rotavirus. Front Pharmacol. 2016 Sep 13;7:308.

M I Chung, et al. Antiplatelet constituents of formosan Rubia akane. J Nat Prod. 1994 Feb;57(2):313-6.

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