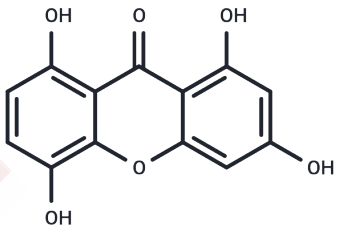
Data Sheet (Cat.No.TN1084)

TargetMol

1,3,5,8-Tetrahydroxyxanthone

Chemical Properties



CAS No. : 2980-32-7

Formula: C13H8O6

Molecular Weight: 260.2

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	1,3,5,8-Tetrahydroxyxanthone (Desmethylbellidifolin) is a natural xanthone extracted from Gentianella acuta, exhibiting antispasmodic and anti-inflammatory activities. Dimethylbellidifolin shows mutagenicity in Salmonella typhimurium TA100, TA98, TA97, and TA2637 by the preincubation method and significantly inhibits the growth of Staphylococcus aureus at a dose of 200 μg/disk.
Targets(IC50)	Anti-infection
In vitro	The mutagenicities of naturally occurring xanthones were tested in Salmonella typhimurium TA100, TA98, TA97, and TA2637 by the preincubation method. Xanthydrol, gentisein, gentisin, isogentisin, 1-hydroxy-3,7-dimethoxyxanthone, 1,3,7-trimethoxyxanthone, Desmethylbellidifolin, bellidifolin and dimethylbellidifolin were mutagenic, but unsubstituted xanthone was not mutagenic to TA100, TA98, TA97 and TA2637 with or without a metabolic activation system[1]

Solubility Information

Solubility	DMSO: 10 mg/mL (38.43 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8432 mL	19.216 mL	38.432 mL
5 mM	0.7686 mL	3.8432 mL	7.6864 mL
10 mM	0.3843 mL	1.9216 mL	3.8432 mL
50 mM	0.0769 mL	0.3843 mL	0.7686 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

Mutagenicities of xanthone derivatives in Salmonella typhimurium TA100, TA98, TA97, and TA2637.Mutat Res. 1985 Jun-Jul;150(1-2):141-6.