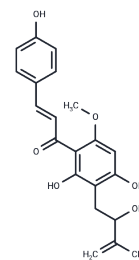


## Xanthohumol D

### Chemical Properties

CAS No. :	274675-25-1
Formula:	C <sub>21</sub> H <sub>22</sub> O <sub>6</sub>
Molecular Weight:	370.4
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	Xanthohumol and xanthohumol D are potent inducers of quinone reductase, suggests that they could be used as chemoprevention agents.
Targets(IC50)	Others
In vitro	Six metabolites were obtained as a result of transformation of xanthohumol (1) by selected fungal cultures. Their structures were established on the basis of their spectral data. One of them: 2'-(2'''-hydroxyisopropyl)-dihydrofurano-[4',5':3',4']-4',2-dihydroxy-6'-methoxy- $\alpha,\beta$ -dihydrochalcone (6) has not been previously reported in the literature. The antioxidant properties of hops flavonoids and Xanthohumol Derivatives were investigated using the 2,2'-diphenyl-1-picrylhydrazyl (DPPH) radical scavenging method. The effects of these compounds on proliferation of MCF-7, PC-3 and HT-29 human cancer cell lines were determined by the SRB assay.

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6998 mL	13.4989 mL	26.9978 mL
5 mM	0.540 mL	2.6998 mL	5.3996 mL
10 mM	0.270 mL	1.3499 mL	2.6998 mL
50 mM	0.054 mL	0.270 mL	0.540 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

Fungal metabolites of xanthohumol with potent antiproliferative activity on human cancer cell lines in vitro. Bioorg Med Chem. 2013 Apr 1;21(7):2001-6.

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