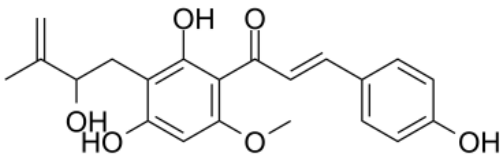
Product Data Sheet

Product Name: Xanthohumol D
Cat. No.: GC37939

Chemical Properties

Cas. No.	274675-25-1		
SMILES	O=C(C1=C(OC)C=C(O)C(CC(O)C(C)=C)=C1O)/C=C/C2=CC=C(O)C=C2		
Formula	$C_{21}H_{22}O_6$	M.Wt	370.4
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

Xanthohumol D, isolated from hops, is an inhibitor of quinone reductase-2 (QR-2) with the IC50 value of 110 μM, and binds to the active site of QR-2. Xanthohumol D shows antiproliferative activity on human cancer cell lines in vitro[1][2]. IC50: 110 μM (Quinone reductase-2)[1]

[1]. Choi Y, et al. Screening natural products for inhibitors of quinone reductase-2 using ultrafiltration LC-MS. Anal Chem. 2011 Feb 1;83(3):1048-52. [2]. Tronina T, et al. Fungal metabolites of xanthohumol with potent antiproliferative activity on human cancer cell lines in vitro. Bioorg Med

Caution: Product has not been fully validated for medical applications. For research use only.
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Chem. 2013 Apr 1;21(7):2001-6.