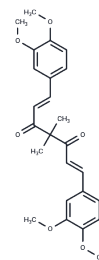


Tetramethylcurcumin

Chemical Properties

CAS No. :	52328-97-9
Formula:	C ₂₅ H ₂₈ O ₆
Molecular Weight:	424.49
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Tetramethylcurcumin is a novel curcumin analog, is an effective inhibitors of STAT3 phosphorylation, DNA binding activity, and transactivation in vitro.it also inhibits colony formation in soft agar, cell invasion, and exhibit synergy with the anti-cancer drug doxorubicin against breast cancer cells.
Targets(IC50)	Apoptosis,STAT

Solubility Information

Solubility	DMSO: 122.5 mg/mL (288.58 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3558 mL	11.7788 mL	23.5577 mL
5 mM	0.4712 mL	2.3558 mL	4.7115 mL
10 mM	0.2356 mL	1.1779 mL	2.3558 mL
50 mM	0.0471 mL	0.2356 mL	0.4712 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

Yuan S, et al. FLLL31, a derivative of curcumin, attenuates airway inflammation in a multi-allergen challenged mouse model. *Int Immunopharmacol.* 2014 Jul;21(1):128-36.

Lin L, et al. Novel STAT3 phosphorylation inhibitors exhibit potent growth-suppressive activity in pancreatic and breast cancer cells. *Cancer Res.* 2010 Mar 15;70(6):2445-54.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481