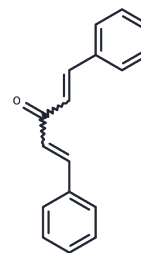


Dibenzalacetone

Chemical Properties

CAS No. :	538-58-9
Formula:	C17H14O
Molecular Weight:	234.3
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	Dibenzylideneacetone is a synthetic curcumin analog. It leads to apoptotic cell death in <i>Leishmania donovani</i> .
Targets(IC50)	Others, Antibacterial

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.268 mL	21.3402 mL	42.6803 mL
5 mM	0.8536 mL	4.268 mL	8.5361 mL
10 mM	0.4268 mL	2.134 mL	4.268 mL
50 mM	0.0854 mL	0.4268 mL	0.8536 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

- Chauhan IS, SubbaRao G, Shankar J, Chauhan LKS, Kapadia GJ, Singh N. Chemoprevention of Leishmaniasis: In vitro antiparasitic activity of dibenzalacetone, a synthetic curcumin analog leads to apoptotic cell death in *Leishmania donovani*. *Parasitol Int*. 2018 Jun 15. pii: S1383-5769(18)30035-7. doi: 10.1016/j.parint.2018.06.004. [Epub ahead of print] PubMed PMID: 29913255.
- Dohutia C, Chetia D, Gogoi K, Sarma K. Design, in silico and in vitro evaluation of curcumin analogues against *Plasmodium falciparum*. *Exp Parasitol*. 2017 Apr;175:51-58. doi: 10.1016/j.exppara.2017.02.006. Epub 2017 Feb 7. PubMed PMID: 28188731.
- El-Ablack FZ, Metwally MA, Khalil AM. Michael Reaction of 3-aryl-2,4-dicarboethoxy-5-hydroxy-5-methylcyclohexanones. *Org Chem Int*. 2015 Sep 1;5(5):311-323. PubMed PMID: 26689538; PubMed Central PMCID: PMC4681101.
- Sedighi V, Azerang P, Sardari S. Antimycobacterial evaluation of novel [4,5-dihydro-1H-pyrazole-1-carbonyl] pyridine derivatives synthesized by microwave-mediated Michael addition. *Drug Test Anal*. 2015 Jun;7(6):550-4. doi: 10.1002/dta.1712. Epub 2014 Sep 14. PubMed PMID: 25219796.

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