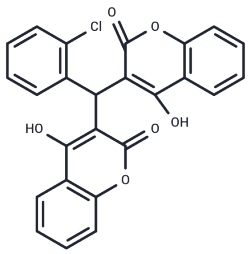
Data Sheet (Cat.No.T36133)

TargetMol

3,3'-((2-Chlorophenyl)methylene)bis(4-hydroxy-2H-chromen-2-one)

Chemical Properties



CAS No. : 4322-58-1

Formula: C25H15ClO6

Molecular Weight: 446.84

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	3,3'-((2-Chlorophenyl)methylene)bis(4-hydroxy-2H-chromen-2-one) is a non-nucleotide inhibitor of ectonucleotide pyrophosphatase/phosphodiesterase 1 (ENPP1; Ki = 50 μM). 1,2 It also inhibits urease (IC50 = 84.53 μM for the Jack bean enzyme).3
Targets(IC50)	Others,Antibacterial

Solubility Information

Solubility	DMSO: 30 mg/mL (67.14 mM),Sonication is recommended. DMSO:PBS (pH 7.2) (1:7): 0.14 mg/mL (0.31 mM),Sonication is recommended. DMF: 30 mg/mL (67.14 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2379 mL	11.1897 mL	22.3794 mL
5 mM	0.4476 mL	2.2379 mL	4.4759 mL
10 mM	0.2238 mL	1.119 mL	2.2379 mL
50 mM	0.0448 mL	0.2238 mL	0.4476 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

Choudhary, M.I., Fatima, N., Khan, K.M., et al. New biscoumarin derivatives-cytotoxicity and enzyme inhibitory activities. Bioorg. Med. Chem. 14(23), 8066-8072 (2006).
Onyedibe, K.I., Wang, M., and Sintim, H.O. ENPP1, an old enzyme with new functions, and small molecule inhibitors - A STING in the tale of ENPP1. Molecules 24(22), E4192 (2019).
Khan, K.M., Iqbal, S., Lodhi, M.A., et al. Biscoumarin: New class of urease inhibitors; economical synthesis and activity. Bioorg. Med. Chem. 12(8), 1963-1968 (2004).

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