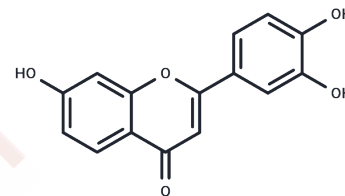


3',4',7-Trihydroxyflavone

Chemical Properties

CAS No. :	2150-11-0
Formula:	C ₁₅ H ₁₀ O ₅
Molecular Weight:	270.24
Storage:	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	7,3',4'-Trihydroxyflavone inhibits osteoclastogenesis via the nuclear factor of activated T cells c1. 7,3',4'-Trihydroxyflavone can markedly inhibit the receptor activator of nuclear factor kappa B ligand-induced osteoclastic differentiation from mouse bone marrow-derived macrophages (BMMs).
Targets(IC50)	Apoptosis,ATPase,ERK,Bcl-2 Family,NF-κB,Akt,Caspase,Antibacterial,NO Synthase,STAT,COX,Dehydrogenase,Interleukin,JNK,p38 MAPK,ROS

Solubility Information

Solubility	DMSO: 55 mg/mL (203.52 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7004 mL	18.5021 mL	37.0041 mL
5 mM	0.7401 mL	3.7004 mL	7.4008 mL
10 mM	0.370 mL	1.8502 mL	3.7004 mL
50 mM	0.074 mL	0.370 mL	0.7401 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

Francisco A, et al. Tomas-Barberan, Manuela M. Garcia-Grau, and Francisco Tomas-Lorente. Journal of Agricultural and Food Chemistry 1991 39 (2), 255-258

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