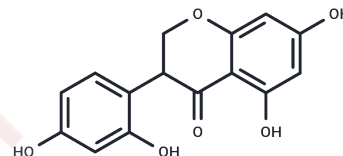


Dalbergioidin

Chemical Properties

CAS No. :	30368-42-4
Formula:	C ₁₅ H ₁₂ O ₆
Molecular Weight:	288.25
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	Dalbergioidin exhibits tyrosinase inhibitory activity with an IC ₅₀ of 20 mM. It shows a melanin biosynthesis inhibition zone in the culture plate of <i>Streptomyces bikiniensis</i> that has commonly been used as an indicator organism. Dalbergioidin protects MC3T3-E1 osteoblastic cells against H ₂ O ₂ -induced cell damage through activation of the PI3K/AKT/SMAD1 pathway, suggests that it may be useful in bone metabolism diseases, particularly osteoporosis. Dalbergioidin also ameliorates doxorubicin-induced renal fibrosis by suppressing the TGF-β signal pathway.
Targets(IC ₅₀)	Akt,PI3K,ROS,TGF-beta/Smad,Tyrosinase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4692 mL	17.3461 mL	34.6921 mL
5 mM	0.6938 mL	3.4692 mL	6.9384 mL
10 mM	0.3469 mL	1.7346 mL	3.4692 mL
50 mM	0.0694 mL	0.3469 mL	0.6938 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.

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