

Antioxidant agent-20

Chemical Properties

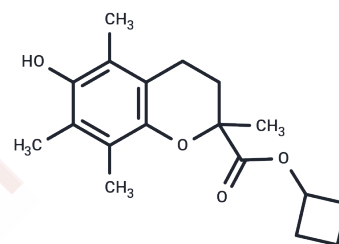
CAS No. :

Formula: C₁₈H₂₄O₄

Molecular Weight: 304.381

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	Antioxidant agent-20 (Compound 3d) exhibits potent anti-inflammatory and antioxidant activities. It reduces reactive oxygen species (ROS) and apoptosis in a dose-dependent manner. Antioxidant agent-20 demonstrates photoprotective effects on UVB-exposed human skin keratinocytes (HaCaT) (IC ₅₀ =5.13 μM) by activating Nrf2/HO-1 signaling and inhibiting the NF-κB pathway.
Targets(IC ₅₀)	Apoptosis,NF-κB,Reactive Oxygen Species,Nrf2,ROS

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2854 mL	16.4268 mL	32.8537 mL
5 mM	0.6571 mL	3.2854 mL	6.5707 mL
10 mM	0.3285 mL	1.6427 mL	3.2854 mL
50 mM	0.0657 mL	0.3285 mL	0.6571 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

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