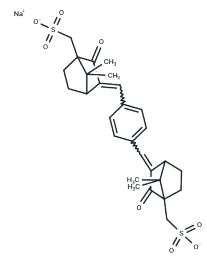


Ecamsule disodium

Chemical Properties

CAS No. :	90458-75-6
Formula:	C ₂₈ H ₃₂ Na ₂ O ₈ S ₂
Molecular Weight:	606.66
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	Ecamsule disodium is a versatile UVA filter compound commonly employed in the formulation of sunscreen products. Its primary role is to mitigate the potential harm posed by solar radiation through the prevention of various biological repercussions induced by UV exposure. These include the inhibition of pyrimidine dimer formation, the reduction of p53 protein accumulation, and the downregulation of collagenase 2 expression.
Targets(IC50)	Others
In vitro	Ecamsule, a broad-spectrum UVA-absorber with optimal absorbance at 344 nm, demonstrates increased sensitivity in wild-type Fibs E6/E7 cells at concentrations ranging from 200-1600 µM. It effectively mitigates UV and AAPH-induced ROS formation in fibroblasts, also reducing basal ROS levels in a dose-dependent manner. Maximum ROS reduction observed is 25.7% at 1600 µM under UV exposure. The same concentration decreases oxidative stress induced by AAPH by 10.8% and lowers basal ROS by 16.9%. Significantly, Ecamsule enhances cell viability at 1600 µM in AAPH-challenged cells.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6484 mL	8.2418 mL	16.4837 mL
5 mM	0.3297 mL	1.6484 mL	3.2967 mL
10 mM	0.1648 mL	0.8242 mL	1.6484 mL
50 mM	0.033 mL	0.1648 mL	0.3297 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

Stefanie Hofer, et al. Contradictory effects of chemical filters in UV/ROS-stressed human keratinocyte and fibroblast cells. ALTEX. 2019;36(2):231-244.

Vincent A DeLeo, et al. A new ecamsule-containing SPF 40 sunscreen cream for the prevention of polymorphous light eruption: a double-blind, randomized, controlled study in maximized outdoor conditions. Cutis. 2009 Feb;83(2):95-103.

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