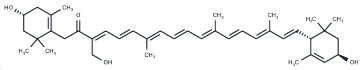
Data Sheet (Cat.No.TN9850)

TargetMol

Siphonaxanthin

Chemical Properties



CAS No. : 28526-44-5

Formula: C40H56O4

Molecular Weight: 600.87

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	Siphonaxanthin is a carotenoid found in green algae, known for targeting the death receptor 5 (DR5) on cancer cells to induce apoptosis. In human leukemia HL-60 cells, it increases DR5 expression, reduces Bcl-2 levels, and activates caspase-3. It also inhibits fibroblast growth factor receptor-1 (FGFR-1) signaling in endothelial cells. Siphonaxanthin suppresses the proliferation, migration, and tubular formation of human umbilical vein endothelial cells (HUVECs), as well as the growth of microvessels in rat aorta rings. Additionally, it has anti-inflammatory properties by blocking the translocation of high-affinity IgE receptors (FcεRI) to lipid rafts in mast cells. Siphonaxanthin shows potential for research into diseases such as cancer, diabetic retinopathy, and rheumatoid arthritis.
Targets(IC50)	Apoptosis,Bcl-2 Family,FGFR,Caspase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6643 mL	8.3213 mL	16.6425 mL
5 mM	0.3329 mL	1.6643 mL	3.3285 mL
10 mM	0.1664 mL	0.8321 mL	1.6643 mL
50 mM	0.0333 mL	0.1664 mL	0.3329 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.

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