

## 3-O-Ethyl-L-ascorbic acid

## Chemical Properties

CAS No. : 86404-04-8

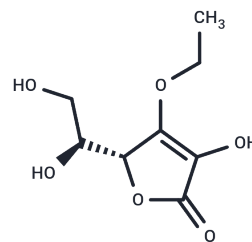
Formula: C<sub>8</sub>H<sub>12</sub>O<sub>6</sub>

Molecular Weight: 204.18

Keep away from moisture, Keep away from direct sunlight

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	3-O-Ethyl-L-ascorbic acid is a cosmetic tyrosinase inhibitor with whitening ability and is a stabilized vitamin C derivative. It also has antioxidant properties.
Targets(IC50)	Tyrosinase

## Solubility Information

Solubility	DMSO: < 2.04 mg/mL (10 mM, insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8976 mL	24.4882 mL	48.9764 mL
5 mM	0.9795 mL	4.8976 mL	9.7953 mL
10 mM	0.4898 mL	2.4488 mL	4.8976 mL
50 mM	0.098 mL	0.4898 mL	0.9795 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

Victoria-Martínez, Ana M, Mercader-García, Pedro. Allergic Contact Dermatitis to 3-o-Ethyl-L-Ascorbic Acid in Skin-lightening Cosmetics[J]. Dermatitis, 2017, 28(1):89.

Iliopoulos F, Sil BC, Moore DJ, et al. 3-O-ethyl-L-ascorbic acid: Characterisation and investigation of single solvent systems for delivery to the skin. Int J Pharm X. 2019 Jul 19;1:100025

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