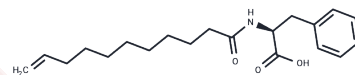


Undecylenoyl phenylalanine

Chemical Properties

CAS No. :	175357-18-3
Formula:	C ₂₀ H ₂₉ NO ₃
Molecular Weight:	331.45
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	Undecylenoyl phenylalanine (Sepiwhite msh QD) is a novel depigmenting agent, which possibly acts as an alpha-melanocyte-stimulating hormone antagonist, thus inhibiting melaninogenesis.
Targets(IC50)	Melanocortin Receptor, Adrenergic Receptor

Solubility Information

Solubility	DMSO: 60 mg/mL (181.02 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.017 mL	15.0852 mL	30.1705 mL
5 mM	0.6034 mL	3.017 mL	6.0341 mL
10 mM	0.3017 mL	1.5085 mL	3.017 mL
50 mM	0.0603 mL	0.3017 mL	0.6034 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

Katoulis A, et al. A double-blind vehicle-controlled study of a preparation containing undecylenoyl phenylalanine 2% in the treatment of melasma in females. *J Cosmet Dermatol*. 2014 Jun;13(2):86-90.

Katoulis AC, et al. A randomized, double-blind, vehicle-controlled study of a preparation containing undecylenoyl phenylalanine 2% in the treatment of solar lentigines. *Clin Exp Dermatol*. 2010 Jul;35(5):473-6.

Bissett DL, et al. Reduction in the appearance of facial hyperpigmentation by topical N-undecyl-10-enoyl-L-phenylalanine and its combination with niacinamide. *J Cosmet Dermatol*. 2009 Dec;8(4):260-6.

Dreher F, et al. Efficacy of hydroquinone-free skin-lightening cream for photoaging. *J Cosmet Dermatol*. 2013 Mar;12(1):12-7.

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