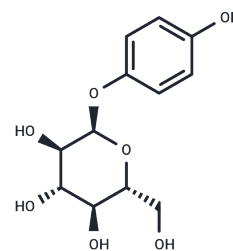


α -Arbutin

Chemical Properties

CAS No. :	84380-01-8
Formula:	C ₁₂ H ₁₆ O ₇
Molecular Weight:	272.25
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	α -Arbutin (4-hydroxyphenyl-D-lucopyranoside) is a synthetic and functional active ingredient for skin lightening.
Targets(IC50)	Tyrosinase

Solubility Information

Solubility	H ₂ O: 100 mg/mL (367.31 mM), Sonication is recommended. DMSO: 100 mg/mL (367.31 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	3.6731 mL	18.3655 mL	36.7309 mL
5 mM	0.7346 mL	3.6731 mL	7.3462 mL
10 mM	0.3673 mL	1.8365 mL	3.6731 mL
50 mM	0.0735 mL	0.3673 mL	0.7346 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

- Magnusson, B., et al.: J. Invest. Dermatol., 52, 268 (1969)
- Goodwin, B., et al.: Contact Dermatitis, 7, 248, (1981)
- Itoh, M., et al.: J. Dermatol., 9, 223 (1982)

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