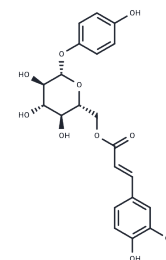


6-O-Caffeoylarbutin

Chemical Properties

CAS No. :	136172-60-6
Formula:	C ₂₁ H ₂₂ O ₁₀
Molecular Weight:	434.39
Storage:	Keep away from direct sunlight, Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	6-O-Caffeoylarbutin (Robustaside B) is a natural antioxidant capable of inducing mitochondrial membrane permeability transition. It modulates the SIRT1/PI3K/AKT/NF-κB pathway, thereby ameliorating liver injury and symptoms of ischaemic stroke in mice.
Targets(IC50)	Antioxidant, NF-κB, Akt, Mitochondrial Metabolism, Sirtuin
In vitro	6-O-Caffeoylarbutin (Robustaside B) decreased the amount of TBARS produced during lipid peroxidation induced by the Fe ²⁺ /ascorbate system in rat liver mitochondria in vitro in a concentration-dependent manner. Varying concentrations of robustaside B (0.05, 0.1, 0.2, 0.25, 0.5, 0.75, and 1 mM) significantly reduced the amount of TBARS generated by 85.3, 86.4, 86.0, 86.1, 86.0, 86.0, and 86.0%, respectively [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3021 mL	11.5104 mL	23.0208 mL
5 mM	0.4604 mL	2.3021 mL	4.6042 mL
10 mM	0.2302 mL	1.151 mL	2.3021 mL
50 mM	0.046 mL	0.2302 mL	0.4604 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

Rahmat A Adisa, et al. Robustaside B and para-hydroxyphenol: phenolic and antioxidant compounds purified from *Cnestis ferruginea* D.C induced membrane permeability transition in rat liver mitochondria. *Mol Med Rep.* 2013 Nov;8(5):1493-8.

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