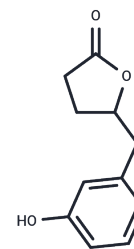


5-(3'-Hydroxyphenyl)- γ -Valerolactone

Chemical Properties

CAS No. :	21618-91-7
Formula:	C ₁₁ H ₁₂ O ₃
Molecular Weight:	192.21
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	5-(3'-Hydroxyphenyl)- γ -Valerolactone (3'-OH-PVL) is a major phenolic catabolite produced from the fermentation of flavan-3-ols (such as catechin and epicatechin) by the gut microbiota. The compound serves as a key biomarker for investigating the biotransformation pathways and stoichiometry of dietary polyphenols within the colon, enabling the assessment of bioavailability and the potential health contributions of flavan-3-ols with varying degrees of polymerization through monitoring its production levels.
Targets(IC50)	Others
In vitro	In fecal fermentation models, 5-(3'-Hydroxyphenyl)- γ -Valerolactone was identified as a major catabolite of monomeric and oligomeric flavan-3-ols [1].

Solubility Information

Solubility	DMF: 5 mg/mL (26.01 mM),Sonication is recommended. DMSO: 5 mg/mL (26.01 mM),Sonication is recommended. Ethanol: 0.5 mg/mL (2.6 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	5.2026 mL	26.0132 mL	52.0264 mL
5 mM	1.0405 mL	5.2026 mL	10.4053 mL
10 mM	0.5203 mL	2.6013 mL	5.2026 mL
50 mM	0.1041 mL	0.5203 mL	1.0405 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

Di Pede G, et al. In Vitro Faecal Fermentation of Monomeric and Oligomeric Flavan-3-ols: Catabolic Pathways and Stoichiometry. Mol Nutr Food Res. 2022 Nov;66(21):e2101090.

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