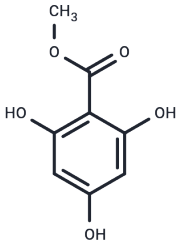
Data Sheet (Cat.No.TN5779)

TargetMol

Methyl 2,4,6-trihydroxybenzoate

Chemical Properties



CAS No. : 3147-39-5

Formula: C8H8O5

Molecular Weight: 184.15

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	Methyl 2,4,6-trihydroxybenzoate is a metabolite of 2,4,6-trihydroxybenzoate that can be isolated from onion peel and exhibits antioxidant, lipid-lowering, and anticancer activities. Methyl 2,4,6-trihydroxybenzoate scavenges free radicals (DPPH·, $ABTS^{\cdot+}$, ·OH) via hydrogen atom transfer (HAT) and singlet electron transfer (SET), thereby inhibiting lipid peroxidation. Methyl 2,4,6-trihydroxybenzoate can be used in antitumor research.
Targets(IC50)	Drug Metabolite

Solubility Information

Solubility	DMSO: 80 mg/mL (434.43 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.4304 mL	27.1518 mL	54.3036 mL
5 mM	1.0861 mL	5.4304 mL	10.8607 mL
10 mM	0.543 mL	2.7152 mL	5.4304 mL
50 mM	0.1086 mL	0.543 mL	1.0861 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

Ishita Chatterjee, et al. Vitamin D receptor promotes healthy microbial metabolites and microbiome. Sci Rep. 2020 Apr 30;10(1):7340.

Cuvelier M E, et al. Comparison of the antioxidative activity of some acid-phenols: structure-activity relationship. Bioscience, biotechnology, and biochemistry. 1992, 56(2): 324-325.

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