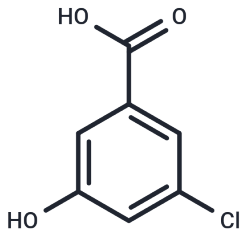
Data Sheet (Cat.No.T7482)

TargetMol

3-chloro-5-hydroxybenzoic Acid

Chemical Properties



CAS No. : 53984-36-4

Formula: C7H5ClO3

Molecular Weight: 172.57

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	3-chloro-5-hydroxy Benzoic Acid (3-chloro-5-hydroxy BA) is an agonist of GPR81 (EC50 : 16 μM)
Targets(IC50)	Others,GPCR,HCAR
In vivo	3-chloro-5-hydroxybenzoic Acid is similarly effective at GPR81 receptors from a variety of mammalian species and is bioavailable, stimulating lipolysis (increased serum free fatty acids) in mice fed high fat chow for 10 weeks[1]

Solubility Information

Solubility	DMSO: 34 mg/mL (197.02 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.7947 mL	28.9737 mL	57.9475 mL
5 mM	1.1589 mL	5.7947 mL	11.5895 mL
10 mM	0.5795 mL	2.8974 mL	5.7947 mL
50 mM	0.1159 mL	0.5795 mL	1.1589 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

Dvorak C A , Liu C , Shelton J , et al. Identification of Hydroxybenzoic Acids as Selective Lactate Receptor (GPR81) Agonists with Antilipolytic Effects[J]. ACS Medicinal Chemistry Letters, 2012, 3(8):637-639.
Engelstoft M S , Park W M , Sakata I , et al. Seven transmembrane G protein-coupled receptor repertoire of gastric ghrelin cells[J]. Molecular Metabolism, 2013, 2(4):376-392.

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