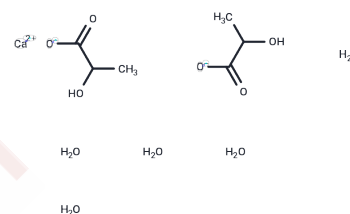


Calcium 2-hydroxypropanoate pentahydrate

Chemical Properties

CAS No. : 5743-47-5
 Formula: $C_3H_5O_3 \cdot 1/2Ca \cdot 5/2H_2O$
 Molecular Weight: 154.147
 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	Calcium 2-hydroxypropanoate (pentahydrate) acts as an activator of the hydroxyl-carboxylic acid receptor 1 (HCAR1) and serves as an epigenetic regulator that induces lysine residue lactylation. This compound, a glycolysis end product, bridges the gap between glycolysis and oxidative phosphorylation and functions as a tumor metabolite with immunoprotective effects of lactate in antitumor immunity.
Targets(IC50)	Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.4872 mL	32.4359 mL	64.8719 mL
5 mM	1.2974 mL	6.4872 mL	12.9744 mL
10 mM	0.6487 mL	3.2436 mL	6.4872 mL
50 mM	0.1297 mL	0.6487 mL	1.2974 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.

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