

D-Gluconic acid calcium hydrate

Chemical Properties

CAS No. :	66905-23-5
Formula:	C ₆ H ₁₂ O ₇ .1/2Ca.1/2H ₂ O
Molecular Weight:	256.264
Storage:	Keep away from moisture, 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	Calcium gluconate monohydrate is a calcium-containing compound that serves as a source of calcium, an essential mineral required for normal neuronal, muscular, and cardiac physiological functions. Calcium gluconate monohydrate contributes to the maintenance of calcium homeostasis in biological systems, and oral administration of Calcium gluconate monohydrate has been reported to prevent osteoporosis. Calcium gluconate monohydrate is therefore widely utilized in physiological, nutritional, skeletal biology, and calcium signaling research.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	H ₂ O: 4 mg/mL (15.61 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9023 mL	19.5114 mL	39.0229 mL
5 mM	0.7805 mL	3.9023 mL	7.8046 mL
10 mM	0.3902 mL	1.9511 mL	3.9023 mL
50 mM	0.078 mL	0.3902 mL	0.7805 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

Ki Cheul Sohn, et al. Biomol Ther (Seoul). 2013, 21(4): 290-298.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481