

Calcium phosphate, dibasic

Chemical Properties

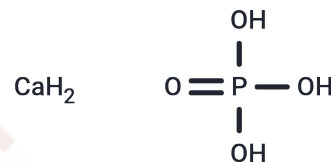
CAS No. : 7757-93-9

Formula: CaH5O4P

Molecular Weight: 140.088

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	Dicalcium phosphate is the calcium phosphate with the formula CaHPO4 and its dihydrate. The "di" prefix in the common name arises because the formation of the HPO4 ²⁻ anion involves the removal of two protons from phosphoric acid, H3PO4. It is also known as dibasic calcium phosphate or calcium monohydrogen phosphate. Dicalcium phosphate is used as a food additive, it is found in some toothpastes as a polishing agent and is a biomaterial.[
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.1383 mL	35.6913 mL	71.3827 mL
5 mM	1.4277 mL	7.1383 mL	14.2765 mL
10 mM	0.7138 mL	3.5691 mL	7.1383 mL
50 mM	0.1428 mL	0.7138 mL	1.4277 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

- Li M, Zhang J, Wang L, Wang B, Putnis CV. Mechanisms of Modulation of Calcium Phosphate Pathological Mineralization by Mobile and Immobile Small-Molecule Inhibitors. *J Phys Chem B*. 2018 Feb 8;122(5):1580-1587. doi: 10.1021/acs.jpbc.7b10956. Epub 2018 Jan 27. PubMed PMID: 29346735.
- Zhang F, Adeola O. True is more additive than apparent total tract digestibility of calcium in limestone and dicalcium phosphate for twenty-kilogram pigs fed semipurified diets. *J Anim Sci*. 2017 Dec;95(12):5466-5473. doi: 10.2527/jas2017.1849. PubMed PMID: 29293744.
- Grote S, Kleinebudde P. Roll Compaction/Dry Granulation of Dibasic Calcium Phosphate Anhydrous-Does the Morphology of the Raw Material Influence the Tableability of Dry Granules? *J Pharm Sci*. 2018 Apr;107(4):1104-1111. doi: 10.1016/j.xphs.2017.12.003. Epub 2017 Dec 14. PubMed PMID: 29247739.
- Kunisch E, Maenz S, Knoblich M, Ploeger F, Jandt KD, Bossert J, Kinne RW, Alsalameh S. Short-time pre-washing of brushite-forming calcium phosphate cement improves its in vitro cytocompatibility. *Tissue Cell*. 2017 Dec;49(6):697-710. doi: 10.1016/j.tice.2017.10.002. Epub 2017 Oct 14. PubMed PMID: 29102397.

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