

## Calcium diglutamate

## Chemical Properties

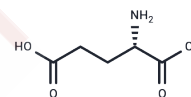
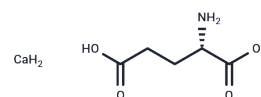
CAS No. : 5996-22-5

Formula: C<sub>10</sub>H<sub>20</sub>CaN<sub>2</sub>O<sub>8</sub>

Molecular Weight: 336.354

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 diglutamate(CDG), calcium acid salt of glutamic acid. As a soluble source of calcium ions, this chemical is used as a first-aid treatment for exposure to hydrofluoric acid.
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9731 mL	14.8655 mL	29.7309 mL
5 mM	0.5946 mL	2.9731 mL	5.9462 mL
10 mM	0.2973 mL	1.4865 mL	2.9731 mL
50 mM	0.0595 mL	0.2973 mL	0.5946 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

- Bain JL, Culpepper BK, Reddy MS, Bellis SL. Comparing variable-length polyglutamate domains to anchor an osteoinductive collagen-mimetic peptide to diverse bone grafting materials. *Int J Oral Maxillofac Implants*. 2014 Nov-Dec;29(6):1437-45. doi: 10.11607/jomi.3759. PubMed PMID: 25397807; PubMed Central PMCID: PMC4504020.
- Türkoğlu Ş. Evaluation of genotoxic effects of five flavour enhancers (glutamates) on the root meristem cells of *Allium cepa*. *Toxicol Ind Health*. 2015 Sep;31(9):792-801. doi: 10.1177/0748233713475509. Epub 2013 Feb 1. PubMed PMID: 23377115.
- Ball P, Woodward D, Beard T, Shoobridge A, Ferrier M. Calcium diglutamate improves taste characteristics of lower-salt soup. *Eur J Clin Nutr*. 2002 Jun;56(6):519-23. PubMed PMID: 12032651.
- Schiffman SS, Frey AE, Luboski JA, Foster MA, Erickson RP. Taste of glutamate salts in young and elderly subjects: role of inosine 5'-monophosphate and ions. *Physiol Behav*. 1991 May;49(5):843-54. PubMed PMID: 1715997.

**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