

Calcium chloride

Chemical Properties

CAS No. : 10043-52-4

Formula: CaCl₂

Molecular Weight: 110.98

Storage: Keep away from moisture

Store at RT

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Calcium chloride serves multiple functions including electrolyte supplementation, osmotic pressure regulation, enzyme cofactor activity, and cell transfection mediation. Calcium chloride is commonly used in cell culture research, such as serving as a calcium supplement in DMEM medium, and can also be employed to prepare synthetic saline solutions.
Targets(IC50)	Others

Solubility Information

Solubility	H ₂ O: 100 mg/mL (901.06 mM),Sonication is recommended. DMSO: 60 mg/mL (540.64 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	PBS: 100 mg/mL (901.06 mM) <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	9.0106 mL	45.0532 mL	90.1063 mL
5 mM	1.8021 mL	9.0106 mL	18.0213 mL
10 mM	0.9011 mL	4.5053 mL	9.0106 mL
50 mM	0.1802 mL	0.9011 mL	1.8021 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

Pastoor FJ, et al. Dietary calcium chloride vs. calcium carbonate reduces urinary pH and phosphorus concentration, improves bone mineralization and depresses kidney calcium level in cats. J Nutr. 1994 Nov;124(11):2212-22.

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