Product Datasheet

Technical Data

Formula	$CaCl_2$		
Molecular Weight	110.98	**CAS No.**	10043-52-4
Solubility (25°C)*	In vitro	Water	22 mg/mL (198.23 mM)
		Ethanol	22 mg/mL (198.23 mM)
		DMSO	Insoluble

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Capsid Bio tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.
* Room temperature shipping (Stability testing shows this product can be shipped at 2-8°C for storage purposes.)

Preparing Stock Solutions

Concentration \ Volume / Mass	1 mg	5 mg	10 mg
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

Biological Activity

Description	Calcium chloride (CaCl2) is an ionic compound used for calcium supplementation in conditions like hypocalcemia and hyperkalemia and as an antidote for magnesium toxicity. It also functions as a co-adjuvant in hemostatic formulations and effectively treats refractory hypotension and complete heart block. It enhances the activity of **MoPtc1** and **MoPtc2**, type 2C protein phosphatases involved in the ionic stress response and MAPK signalling regulation in Magnaporthe oryzae. It can also be used as a desiccant and dehydrating agent.

References

https://pubmed.ncbi.nlm.nih.gov/39230365/
https://pubmed.ncbi.nlm.nih.gov/36547620/

RETURN POLICY

Capsid Bio's Unconditional Return Policy ensures a smooth online shopping experience for our customers. If you are in any way unsatisfied with your purchase, you may return any item(s) within 7 days of receiving it. In the event of product quality issues, either protocol related or product related problems, you may return any item(s) within 365 days from the original purchase date. Please follow the instructions below when returning products.

SHIPPING & STORAGE

Capsid Bio products are transported at room temperature. If you receive the product at room temperature, please rest assured, the Capsid Bio Quality Inspection Department has conducted experiments to verify that the normal temperature placement of one month will not affect the biological activity of powder products. After collecting, please store the product according to the requirements described in the datasheet. Most Capsid Bio products are stable under the recommended conditions.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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