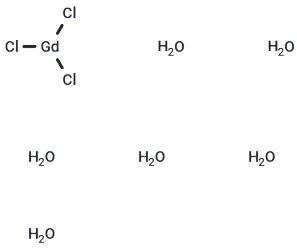
Data Sheet (Cat.No.T66961)

TargetMol

Gadolinium(III) chloride hexahydrate

Chemical Properties



CAS No. : 13450-84-5

Formula: Cl3GdH12O6

Molecular Weight: 371.7

Storage: Keep away from moisture
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	Gadolinium(III) chloride hexahydrate is a contrast agent in magnetic resonance imaging and can be used in medicine, magnetic resonance imaging, liquid crystal displays and other fields. Gadolinium(III) chloride hexahydrate can be used to synthesize complexes and nanomaterials.
Targets(IC50)	Others
In vitro	Gadolinium(III) chloride hexahydrate is a CASR agonist, which has proven to promote myocardial apoptosis, thereby increasing ERK1/2 phosphate and activating Caspase-3. 30 μm Gadolinium(III) chloride hexahydrate treats H9C2 cells for 15 minutes, resulting in increasing BAX expression in CSA-induced cells and activation of Caspase-3, and reducing BCL-2 expression. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6903 mL	13.4517 mL	26.9034 mL
5 mM	0.5381 mL	2.6903 mL	5.3807 mL
10 mM	0.269 mL	1.3452 mL	2.6903 mL
50 mM	0.0538 mL	0.269 mL	0.5381 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 X, et al. Calcium Oxalate Induces Renal Injury through Calcium-Sensing Receptor. Oxid Med Cell Longev. 2016; 2016:5203801.

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