

## Cerium oxide

## Chemical Properties

CAS No. :	1306-38-3
Formula:	CeO <sub>2</sub>
Molecular Weight:	172.12
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	Cerium oxide, 99.99% metals basis, <5 µm, functions as a biochemical analysis reagent with anti-inflammatory properties and mimics the activity of SOD and catalase. Cerium oxide, 99.99% metals basis, <5 µm, exhibits enzyme-mimetic redox activity relevant to oxidative stress modulation in biochemical research systems. Cerium oxide, 99.99% metals basis, <5 µm, is applicable in chronic inflammation-related in vitro and in vivo experimental models for oxidative stress pathway interrogation and is also utilized in materials science research including solid oxide fuel cells, solar cells, catalysts, oxygen pumps, and gas sensors.
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.8099 mL	29.0495 mL	58.099 mL
5 mM	1.162 mL	5.8099 mL	11.6198 mL
10 mM	0.581 mL	2.905 mL	5.8099 mL
50 mM	0.1162 mL	0.581 mL	1.162 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

Celardo I, et al., Cerium oxide nanoparticles: a promise for applications in therapy. J Exp Ther Oncol. 2011;9(1):47-51.

**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