



Cerium Oxide Nanoparticles, 5 nm

PRODUCT DATA SHEET

Cerium Oxide Nanoparticles, 5 nm

Cat No: ABCN-5

Description

Cerium oxide nanoparticles have a wide range of antioxidant activities and surface self-regeneration capabilities, and are ideal for ROS scavengers in vivo. It has simulated enzyme activities such as superoxide dismutase (SOD), catalase, peroxidase, oxidase, phosphatase, etc. At the same time, it has the ability to remove active oxygen such as: to remove hydroxyl free radicals, nitric oxide free radicals, peroxynitrite and so on.

Abvigen can provide high quality cerium oxide nanoparticles. The product has high repeatability between batches, which can meet the needs of different personalized materials such as research and development, testing and production of various customers.

For custom sizes, formulations or bulk quantities please contact our customer service department.

Website: www.abvigen.com **Phone:** +1 929-202-3014 **Email:** info@abvigenus.com

Characteristics

Type: Cerium Oxide Nanoparticles

Composition: Cerium Oxide Nanoparticles, purified water

Surface: Polyacrylic acid

Particle size: 5 nm

Concentration: 1 mg/mL

Size: 2.5 mL

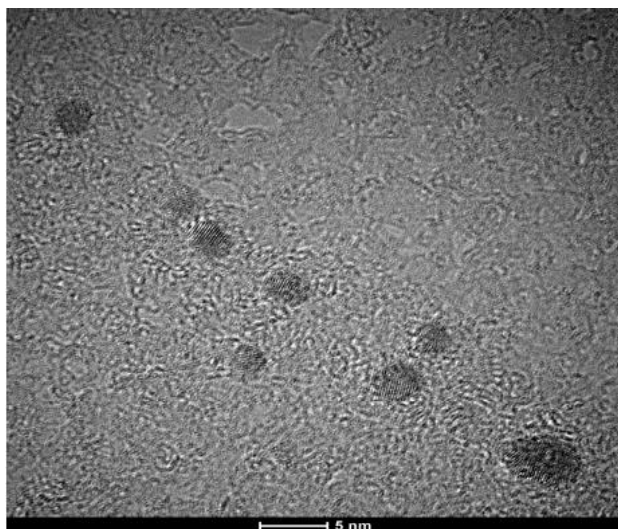
Colour: Pale yellow

Storage condition: Sealed storage at 4°C

Shelf life: 6 months

Package: Glass bottle

TEM of Cerium Oxide Nanoparticles



Enzyme Activity Test



The left figure shows that cerium oxide nanoparticles cause TMB to develop color; The right figure shows that cerium oxide nanoparticles cause H₂O₂ to release oxygen rapidly.

Advantages

Uniform particle size

The monodispersity is good

The surface of cerium oxide nanoparticles is negatively charged and carries a large number of carboxyl groups

High specific surface area

High load

Easy surface functionalization

It has low biotoxicity and can be used in downstream cell animal experiments



Applications

ROS remover

Catalyst and catalyst support

Electrochemical material

Polishing material

Ultraviolet absorber

Storage

Sealed, stored in a refrigerator at 4°C for 6 months.

Ordering Information

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