MnO_2 Nanosheet, 50 nm
PRODUCT DATA SHEET

MnO_2 Nanosheet, 50 nm

Cat No: ABMN-50

Description

MnO_2 nanosheets have nanoscale, which makes them have a large specific surface area and high surface activity, which is conducive to improving their reaction performance, and show good biocompatibility, catalytic performance and oxidation. Specifically, because of its good water solubility and nanoscale, MnO_2 nanosheets usually have good biocompatibility and can be compatible with tissues and cells in living organisms. Besides, MnO_2 nanosheets exhibit good catalytic performance in some catalytic reactions, such as oxygen reduction reaction, organic degradation and electrochemical sensing. Its high surface area and abundant surface active sites help to improve catalytic efficiency. In addition, MnO_2 is an oxidant with good activity in some oxidation reactions. The nano scale and high surface activity of water soluble MnO_2 nanosheets make their oxidation properties more prominent.

MnO_2 nanosheets have antioxidant activity and can remove free radicals. It has the catalytic effect of simulating enzyme activity, such as superoxide dismutase (SOD), catalase and so on. In addition, MnO_2 nanosheets are also widely used in many fields such as electrochemical energy storage, catalysis and water treatment.

Abvigen can provide high quality MnO_2 nanosheets. 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: MnO_2 Nanosheet

Composition: MnO_2 Nanosheet, purified water

Surface: -COOH

Particle size: 50 nm

Thickness: 0.8 ~ 1.5 nm

Concentration: 1 mg/mL

Size: 2.5 mL

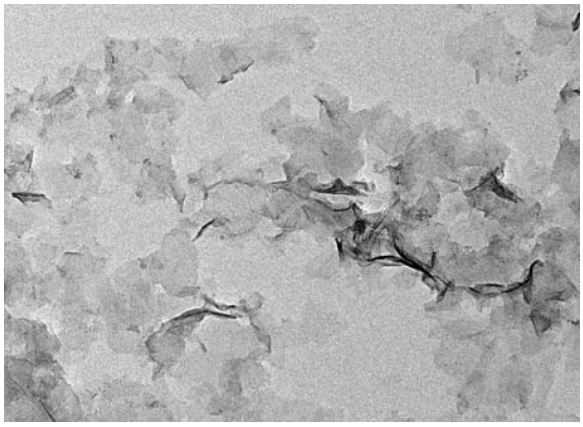
Colour: Black liquid

Storage condition: Sealed storage at 4°C

Shelf life: 6 months

Package: Glass bottle

TEM of MnO_2 Nanosheet



Enzyme Activity Test

The left image shows that MnO_2 nanosheets cause TMB to develop color; The right figure shows that MnO_2 nanosheets cause H_2O_2 to release oxygen rapidly.

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Advantages

Large specific surface area

High surface activity

Good biocompatibility

Good catalytic performance

Good oxidation properties

Antioxidant activity

Applications

Electrochemical energy storage

Catalyze

Water treatment

Scavenging free radicals

Storage

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

Ordering Information

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