



Red Fluorescent Cross-Linked Magnetic Dextran Nanoparticles

PRODUCT DATA SHEET

Red Fluorescent Cross-Linked Magnetic Dextran Nanoparticles

Description

Red Fluorescent Cross Linked Magnetic Dextran Nanoparticles are a multifunctional composite material designed specifically for separation and detection, with red fluorescence properties. This nanoparticle is prepared by core-shell method, and its core is composed of cross-linked chitosan matrix, which can be easily separated efficiently by traditional permanent magnets. With the dual characteristics of fluorescent labeling and magnetic response, this product performs excellently in the fields of cell labeling, molecular probes, and biological imaging. Researchers can track its distribution and behavior in cells or tissues in real time through fluorescence microscopy or imaging technology, and deeply analyze its biological functions and metabolic pathways. In addition, thanks to the excellent biocompatibility and degradability of pectin, Red Fluorescent Cross Linked Magnetic Dextran nanoparticles can also serve as drug delivery carriers, achieving precise targeted delivery and controlled release by binding with drug molecules, providing efficient and reliable solutions for biomedical research and clinical applications.

Abvigen Inc can provide high quality Red Fluorescent Cross-Linked Magnetic Dextran Nanoparticles with various particle sizes. The product has uniform particle size and good magnetic stability. It can meet the personalized material needs of various customers for research and development, testing, production, and consumption.

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

Concentration: 5 mg/ml

Size: 5 ml

Surface: Plain

Diameter: 300 nm / 500 nm

Polydispersity index: < 0.200

Composition: Cross-linked starch iron oxide composite particles

Shape: Cluster-typed

Excitation: 552 nm

Emission: 580 nm

Buffer: Suspension in PBS

Expiration date: 6 months

Store: Storage at 2 - 8 °C

Storage

This product should be stored at 4°C. **DO NOT FREEZE.**

For 5 mg/ml of Red Fluorescent Cross-Linked Magnetic Dextran Nanoparticles

Diameter	Conc. mg/ml	Particles/mg	Particles/ml
300 nm	5	2.8E+10	1.4E+11
500 nm	5	6.1E+9	3.1E+10

Advantage

Uniform particle size

Stable fluorescence intensity

Good magnetic stability

Good biocompatibility

High sensitivity

**Applications**

Cell labeling and tracking

Molecular probe

Biological imaging

Drug delivery

Ordering Information

Website: www.abvigen.com

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Email: info@abvigenus.com