



Red Nanoflower Structure Fluorescent Magnetic Nanoparticles PRODUCT DATA SHEET

Red Nanoflower Structure Fluorescent Magnetic Nanoparticles

Description

Red Nanoflower Structure Fluorescent Magnetic Nanoparticles are a multifunctional nanomaterial that combines magnetic response and fluorescence tracing. This material is composed of a cross-linked pectin matrix and magnetic hematite nanoclusters, forming a unique "nanoflower" morphology. Red Nanoflower Structure Fluorescent Magnetic Nanoparticles are excited at a wavelength of 552 nm and emit at 580 nm. This material exhibits specific interactions with alternating magnetic fields in terms of magnetic properties, and cannot be separated by conventional permanent magnets. However, it can achieve precise manipulation in high gradient magnetic fields and is an ideal tracer for magnetic particle imaging (MPI).

Abvigen Inc can provide high quality Red Nanoflower Structure Fluorescent Magnetic 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: 50 nm / 70 nm

Polydispersity index: < 0.200

Composition: Cross-linked starch iron oxide composite particles

Shape: Cluster-typed

Density: 2.5 g/ccm

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 10 mg/ml of Red Nanoflower Structure Fluorescent Magnetic Nanoparticles

Diameter	Conc. mg/ml	Particles/mg	Particles/ml
50 nm	5	6.1E+12	3.1E+13
70 nm	5	2.2E+12	1.1E+13

Advantage

Uniform particle size

Stable fluorescence intensity

Good magnetic stability

Good biocompatibility

High sensitivity

High specific surface area

Superparamagnetism

**Applications**

Cell labeling and tracking

Molecular probe

Biological imaging

Drug delivery

Ordering Information

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Email: info@abvigenus.com