



Carboxyl Iron Oxide Nanoparticles PRODUCT DATA SHEET

Carboxyl Iron Oxide Nanoparticles

Description

Abvigen's Carboxyl Iron Oxide Nanoparticles are superparamagnetic particles with excellent colloidal stability and biocompatible coating for biomedical applications including: in-vivo magnetic resonance imaging (MRI), magnetic particles imaging (MPI), magnetic sensing for in-vitro diagnostics, small molecular drug delivery, immunotherapy, hyperthermia, adjuvant for vaccine, etc. These particles are nanosized (5-30 nm) iron oxide nanoparticles with carboxylic acid groups.

Oligonucleotides, antibodies, or other ligands with amine groups can be easily coupled to the nanoparticles. Activation through EDC is required. With excellent colloidal stability and unique surface coating, the carboxyl magnetic nanoparticles exhibit good binding capacity and low non-specific binding of protein or nucleic acids.

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

Diameter: 5 nm - 600 nm

Size: 2 ml; 10 ml

Concentration: 5 mg/ml

Composition: Iron Oxide Nanoparticles

Surface: Carboxyl

Shape: Spherical

Buffer: PBS

Density: 5.18 g/ccm

Standard deviation: CV<5%

Store: Storage at 2 - 8 °C

Storage

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

For 10 mg/ml of Carboxyl Iron Oxide Nanoparticles

Diameter	Conc. mg/ml	Particles/mg	Particles/ml	Diameter	Conc. mg/ml	Particles/mg	Particles/ml
5 nm	5	2.95E+06	1.47E+07	100 nm	5	3.69E+02	1.84E+03
10 nm	5	3.69E+05	1.84E+06	200 nm	5	4.61E+01	2.30E+02
15 nm	5	1.09E+05	5.46E+05	300 nm	5	1.37E+01	6.83E+01
20 nm	5	4.61E+04	2.30E+05	400 nm	5	5.76E+00	2.88E+01
25 nm	5	2.36E+04	1.18E+05	500 nm	5	2.95E+00	1.47E+01
30 nm	5	1.37E+04	6.83E+04	600 nm	5	1.71E+00	8.53E+00

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Reserved

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Advantages

Narrow size distribution

High colloidal stability

Low non-specific binding

Easy conjugation

Applications

In-vivo magnetic resonance imaging (MRI)

Magnetic particles imaging (MPI)

Magnetic sensing for in-vitro diagnostics

Small molecular drug delivery

Immunotherapy

Hyperthermia

Adjuvant for vaccine

Ordering Information

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