

# **OA@Fe3O4**

## Description

OA@Fe3O4 It is a nano material obtained by modifying oleic acid molecules on the surface of Fe3O4 magnetic Particles, and is widely used in the biomedical field. Its excellent magnetism, dispersibility, stability, and biocompatibility make it important for applications in magnetic resonance imaging, targeted drug delivery, cell separation, magnetic hyperthermia, and other fields. OA@Fe3O4 It can effectively improve the contrast of magnetic resonance imaging, serve as a drug carrier for targeted therapy, and play an important role in cell and biomolecule separation.

Abvigen Inc can provide high-quality OA@Fe3O4 with various particle sizes. The product has uniform particle size and good surface adsorption performance. 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: <u>www.abvigen.com</u> Phone: +1 929-202-3014 Email: <u>info@abvigenus.com</u>

#### Characteristics

Concentration: 10 mg/ml Size: 10 ml; 50 ml Surface: Oil Acid Shape: Spherical Composition: OA@Fe3O4 Buffer: 10-20 nm in Chloroform, Others in Cyclohexane Form: Suspension Store: Storage at 2 - 8 °C

#### Storage

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

#### For 10 mg/ml of OA@Fe3O4

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Diameter	Conc. mg/ml	Particles/mg	Particles/ml	Diameter	Conc. mg/ml	Particles/mg	Particles/ml
0.05 um	10	2.95E+12	2.95E+13	5 um	10	1.39E+07	1.39E+08
0.1 um	10	3.69E+11	3.69E+12	10 um	10	1.74E+06	1.74E+07
0.2 um	10	4.61E+10	4.61E+11	15 um	10	5.14E+05	5.14E+06
0.3 um	10	1.37E+10	1.37E+11	20 um	10	2.17E+05	2.17E+06
0.4 um	10	5.76E+09	5.76E+10	30 um	10	6.43E+04	6.43E+05
0.5 um	10	2.95E+09	2.95E+10	40 um	10	2.71E+04	2.71E+05
1 um	10	1.74E+09	1.74E+10	50 um	10	1.39E+04	1.39E+05
2 um	10	2.17E+08	2.17E+09	100 um	10	1.74E+03	1.74E+04
3 um	10	6.43E+07	6.43E+08				

### Advantage

Uniform particle size

Excellent magnetic properties

Good dispersibility

Good chemical stability

Biocompatibility

#### Applications

Magnetic Resonance Imaging

Targeted drug carrier

Magnetic field hyperthermia

Molecular imaging

**Biomolecular Separation** 

Ordering Information

Website: www.abvigen.com

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