



## **Green Fluorescent SiO<sub>2</sub> Magnetic Particles-COOH**

### **PRODUCT DATA SHEET**

## **Green Fluorescent SiO<sub>2</sub> Magnetic Particles-COOH**

### **Description**

Fluorescent SiO<sub>2</sub> Magnetic Particles are a special type of nanomaterial that exhibits magnetic, fluorescent labeling, and silica properties simultaneously. This material is usually made of SiO<sub>2</sub> Magnetic Particles. The surface is easy to modify, has good magnetic responsiveness, biocompatibility, high specific surface area, and stable fluorescence properties, and can be rapidly enriched and separated under the action of external magnetic fields. Fluorescent SiO<sub>2</sub> Magnetic Particles are commonly used for targeted drug delivery, separation and purification of biomolecules, biological imaging, gene delivery, and have a wide range of applications in biomedical, chemical analysis, and materials science fields. Fluorescent SiO<sub>2</sub> Magnetic Particles-COOH can be obtained by surface modification of Fluorescent SiO<sub>2</sub> Magnetic Particles. The biocompatibility and reactivity of Fluorescent SiO<sub>2</sub> Magnetic Particles have been improved through carboxyl modification. Carboxyl groups can serve as linking groups for immunoassays, providing convenience for coupling specific biomolecules such as antibodies.

Abvigen Inc can provide high-quality Green Fluorescent SiO<sub>2</sub> Magnetic Particles-COOH with multiple particle sizes. Green Fluorescent SiO<sub>2</sub> Magnetic Particles-COOH has uniform particle size, stable fluorescence intensity, and good magnetic responsiveness, which can meet the personalized material needs of various customers in research and development, testing, production, and consumption.

For custom sizes, formulations or bulk quantities please contact our customer service department.

**Website:** [www.abvigen.com](http://www.abvigen.com) **Phone:** +1 929-202-3014 **Email:** [info@abvigenus.com](mailto:info@abvigenus.com)



### Characteristics

Concentration: 25 mg/ml

Size: 10 ml or others

Surface: Carboxyl

Shape: Spherical

Composition: Fluorescent SiO<sub>2</sub> Magnetic Particles

Standard deviation: CV<5%

Excitation: 488 nm

Emission: 518 nm

Buffer: PBS

Form: Suspension

Store: Storage at 2 - 8 °C

### Storage

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

### For 25 mg/ml of Green Fluorescent SiO<sub>2</sub> Magnetic Particles-COOH

Diameter	Conc. mg/ml	Particles/mg	Particles/ml	Diameter	Conc. mg/ml	Particles/mg	Particles/ml
0.2 um	25	9.55E+10	2.39E+12	30 um	25	2.83E+04	7.07E+05
0.5 um	25	6.11E+09	1.53E+11	40 um	25	1.19E+04	2.98E+05
1 um	25	7.64E+08	1.91E+10	50 um	25	6.11E+03	1.53E+05
3 um	25	2.83E+07	7.07E+08	60 um	25	3.54E+03	8.84E+04
5 um	25	6.11E+06	1.53E+08	70 um	25	2.23E+03	5.57E+04
10 um	25	7.64E+05	1.91E+07	80 um	25	1.49E+03	3.73E+04
15 um	25	2.26E+05	5.66E+06	90 um	25	1.05E+03	2.62E+04
20 um	25	9.55E+04	2.39E+06	100 um	25	7.64E+02	1.91E+04
10 um	25	7.64E+05	1.91E+07	80 um	25	1.49E+03	3.73E+04

### Advantage

Hydrophilicity

Biocompatibility



Uniform particle size

Good magnetic responsiveness

Stable fluorescence intensity

### **Application**

Drug delivery

Separation and purification of biomolecules

Biological imaging

Biomarkers

Genetic transmission

Nucleic acid test

### **Ordering Information**

Website: [www.abvigen.com](http://www.abvigen.com)

Phone: +1 929-202-3014

Email: [info@abvigenus.com](mailto:info@abvigenus.com)