Mesoporous Silica Particles-NH2
PRODUCT DATA SHEET

Mesoporous Silica Particles-NH2

Description

Mesoporous Silica Particles are nanomaterials with unique structures and properties, characterized by highly ordered pore structures and large specific surface areas. This ordered pore structure gives them high catalytic activity and excellent adsorption performance. Mesoporous Silica Partic-NH2 is typically synthesized by introducing amino functional groups into the structure of mesoporous silica. Amino functional groups can provide surface active sites, improving selectivity and activity in catalytic reactions. Mesoporous Silica Particles-NH2 also has good adsorption capacity and can be used to remove organic dyes and heavy metal ions from solutions. This material is widely used in fields such as adsorption, catalysis, drug carriers, microreactors and other fields.

Abigen can provide high-quality Mesoporous Silica Particles-NH2 of various particle sizes. This material can be used as a targeted drug carrier for drug delivery, as a loaded fluorescent dye for biological imaging and tracking, and as an adsorbent and catalyst for adsorbing and degrading organic pollutants. We are able to meet the individual material needs of our customers for research and development, testing and production consumption.

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

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Characteristics

Diameter: 50 nm -100 um

Size: 10 ml or others

Concentration: 10 mg/ml

Composition: Mesoporous Silica Particles

Density: 1.8 g/ccm

Shape: Spherical

Functional Group: Amino

Buffer: DI Water

Form: Suspension

Colour: White

For 10 mg/ml of Mesoporous Silica Particles-NH2

Diameter	Conc. mg/ml	Particles/mg	Particles/ml	Diameter	Conc. mg/ml	Particles/mg	Particles/ml
0.05 um	10	8.49E+12	8.49E+13	10 um	10	1.06E+06	1.06E+07
0.1 um	10	1.06E+12	1.06E+13	20 um	10	1.33E+05	1.33E+06
0.15 um	10	3.14E+11	3.14E+12	30 um	10	3.93E+04	3.93E+05
0.2 um	10	1.33E+11	1.33E+12	40 um	10	1.66E+04	1.66E+05
0.3 um	10	3.93E+10	3.93E+11	50 um	10	8.49E+03	8.49E+04
0.5 um	10	8.49E+09	8.49E+10	60 um	10	4.91E+03	4.91E+04
1 um	10	1.06E+09	1.06E+10	70 um	10	3.09E+03	3.09E+04
3 um	10	3.93E+07	3.93E+08	80 um	10	2.07E+03	2.07E+04
5 um	10	8.49E+06	8.49E+07	90 um	10	1.46E+03	1.46E+04
8 um	10	2.07E+06	2.07E+07	100 um	10	1.06E+03	1.06E+04

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Highlights

Good adsorption performance

High specific surface area

Good biocompatibility

Uniform particle size

Strong chemical stability

Good dispersibility

Surface modifiable

Applications

Protein adsorption and separation

Nucleic acid detection and purification

Drug and gene delivery

Imaging contrast agents construction

Biodiagnostic and nanomedicine applications

Ordering Information

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