Orange PS Fluorescent Particles-NH2
PRODUCT DATA SHEET

Orange PS Fluorescent Particles-NH2

Description

PS Fluorescent Particles-NH2 is a functional Particles material, which is widely used in biomedicine, analytical chemistry, environmental monitoring and other fields. This material is based on polystyrene, doped with fluorescent dyes and modified with surface amino functional groups to improve its chemical activity and selectivity. It can emit different colors of fluorescence under specific wavelength excitation, making it easy to detect and track. PS Fluorescent Particles-NH2 can effectively bind with biomolecules and is suitable for immobilizing biomolecules such as proteins and antibodies. Meanwhile, amino modification also endows PS Fluorescent Particles with the potential to catalyze reactions and participate as catalysts in catalytic reactions.

Abvigen Inc can provide high-quality Orange PS Fluorescent Particles-NH2 in various particle sizes. The product has uniform particle size and stable fluorescence 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: www.abvigen.com Phone: +1 929-202-3014 Email: info@abvigenus.com

Characteristics

Concentration: 10 mg/ml

Size: 10 ml; 20 ml

Surface: Amino

Shape: Spherical

Density: 1.03 g/ccm

Composition: Orange PS Fluorescent Particles

Excitation: 540 nm

Emission: 580 nm

Buffer: DI Water

Form: Suspension

1378 US-206 Ste 6-126, Skillman, NJ USA
Email: info@abvigenus.com
Tel: 1-816-388- 0112 Fax: 1- 888-616-0161

Store: Storage at 2 - 8 °C

Storage

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

For 10 mg/ml of Orange PS Fluorescent Particles-NH2

Diameter	Conc. mg/ml	Particles/mg	Particles/ml	Diameter	Conc. mg/ml	Particles/mg	Particles/ml
0.05 um	10	1.48E+13	1.48E+14	18 um	10	3.18E+05	3.18E+06
0.1 um	10	1.85E+12	1.85E+13	19 um	10	2.70E+05	2.70E+06
0.2 um	10	2.32E+11	2.32E+12	20 um	10	2.32E+05	2.32E+06
0.3 um	10	6.87E+10	6.87E+11	21 um	10	2.00E+05	2.00E+06
0.4 um	10	2.90E+10	2.90E+11	22 um	10	1.74E+05	1.74E+06
0.5 um	10	1.48E+10	1.48E+11	23 um	10	1.52E+05	1.52E+06
0.6 um	10	8.58E+09	8.58E+10	24 um	10	1.34E+05	1.34E+06
0.7 um	10	5.41E+09	5.41E+10	25 um	10	1.19E+05	1.19E+06
0.8 um	10	3.62E+09	3.62E+10	30 um	10	6.87E+04	6.87E+05
0.9 um	10	2.54E+09	2.54E+10	40 um	10	2.90E+04	2.90E+05
1 um	10	1.85E+09	1.85E+10	50 um	10	1.48E+04	1.48E+05
2 um	10	2.32E+08	2.32E+09	60 um	10	8.58E+03	8.58E+04
3 um	10	6.87E+07	6.87E+08	70 um	10	5.41E+03	5.41E+04
4 um	10	2.90E+07	2.90E+08	80 um	10	3.62E+03	3.62E+04
5 um	10	1.48E+07	1.48E+08	90 um	10	2.54E+03	2.54E+04
6 um	10	8.58E+06	8.58E+07	110 um	10	1.39E+03	1.39E+04
7 um	10	5.41E+06	5.41E+07	120 um	10	1.07E+03	1.07E+04
8 um	10	3.62E+06	3.62E+07	150 um	10	5.49E+02	5.49E+03
9 um	10	2.54E+06	2.54E+07	180 um	10	3.18E+02	3.18E+03
10 um	10	1.85E+06	1.85E+07	250 um	10	1.19E+02	1.19E+03
11 um	10	1.39E+06	1.39E+07	500 um	10	1.48E+01	1.48E+02
12 um	10	1.07E+06	1.07E+07	900 um	10	2.54E+00	2.54E+01
13 um	10	8.44E+05	8.44E+06	1100 um	10	1.39E+00	1.39E+01
14 um	10	6.76E+05	6.76E+06	1400 um	10	6.76E-01	6.76E+00

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15 um	10	5.49E+05	5.49E+06	1700 um	10	3.77E-01	3.77E+00
16 um	10	4.53E+05	4.53E+06	3000 um	10	6.87E-02	6.87E-01
17 um	10	3.77E+05	3.77E+06				

Polystyrene Particles Centrifugation Parameters

Particle Size	Centrifugal Acceleration	Time	Resuspension of Pellet
50 nm	45,000 x g	30 min	30 min sonication / vortex
100 nm	45,000 x g	30 min	30 min sonication / vortex
200 nm	45,000 x g	30 min	30 min sonication / vortex
500 nm	45,000 x g	20 min	10 min sonication / vortex
800 nm	10,000 x g	20 min	10 min sonication / vortex
1 um	3,500 x g	15 min	10 min sonication / vortex
2-4 um	1,600 x g	15 min	vortex
5-8 um	1,200 x g	10 min	vortex
>8 um	25 x g	10 min	vortex

Advantage

Monodisperse particles

High uniformity of particle size

High fluorescence intensity

Good chemical stability

Strong resistance to photobleaching

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Applications

Flow cytometry

Fluorescence microscope

Devouring research

Cell markers

Protein separation

Immobilization of biomolecules

Ordering Information

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