



Orange Cross-linked PS Fluorescent Particles-COOH

PRODUCT DATA SHEET

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Description

Cross-linked PS Fluorescent Particles are particles with excellent stability and multifunctionality, widely used in biomedical, chemical analysis, and surface coating fields. Cross-linked PS Fluorescent Particles have strong chemical stability, thermal stability, and mechanical strength, and can maintain good functionality in complex experimental environments. Organic fluorescent dyes were added into the monodisperse polystyrene Particles through copolymerization, so that the materials had stable and good fluorescence characteristics. The surface of the material can be further modified to enable it to bind with other biomolecules such as antibodies, DNA, RNA. Widely used in fields such as immune detection, flow cytometry, molecular labeling, and biomolecular analysis. Due to its good dispersion and stability, fluorescent Particles also play an important role in environmental monitoring, sensors and medical diagnosis. By surface modification with carboxyl groups, the hydrophilicity and biocompatibility of Cross-linked PS Fluorescent Particles have been enhanced, providing additional surface active sites for further modification.

Abvigen Inc can provide high-quality Orange Cross-linked PS Fluorescent Particles-COOH 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: Carboxyl

Shape: Spherical

Density: 1.03 g/ccm

Composition: Orange Cross-linked PS Fluorescent Particles-COOH

Excitation: 540 nm

Emission: 580 nm

Buffer: DI Water

Form: Suspension

Store: Storage at 2 - 8 °C

Storage

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

Note

1-20 um default cross-linking% is 1%, >20 um default cross-linking% is 5%.

If you require any other cross-linking%, please contact us: info@abvigenus.com

For 10 mg/ml of Orange Fluorescent Cross-linked Polystyrene Particles-COOH

Diameter	Conc. mg/ml	Particles/mg	Particles/ml	Diameter	Conc. mg/ml	Particles/mg	Particles/ml
0.3 um	10	6.87E+10	6.87E+11	16 um	10	4.53E+05	4.53E+06
0.4 um	10	2.90E+10	2.90E+11	17 um	10	3.77E+05	3.77E+06
0.5 um	10	1.48E+10	1.48E+11	18 um	10	3.18E+05	3.18E+06
0.6 um	10	8.58E+09	8.58E+10	19 um	10	2.70E+05	2.70E+06
0.7 um	10	5.41E+09	5.41E+10	20 um	10	2.32E+05	2.32E+06
0.8 um	10	3.62E+09	3.62E+10	21 um	10	2.00E+05	2.00E+06
0.9 um	10	2.54E+09	2.54E+10	22 um	10	1.74E+05	1.74E+06
1 um	10	1.85E+09	1.85E+10	23 um	10	1.52E+05	1.52E+06
2 um	10	2.32E+08	2.32E+09	24 um	10	1.34E+05	1.34E+06
3 um	10	6.87E+07	6.87E+08	25 um	10	1.19E+05	1.19E+06



4 um	10	2.90E+07	2.90E+08	26 um	10	1.05E+05	1.05E+06
5 um	10	1.48E+07	1.48E+08	27 um	10	9.42E+04	9.42E+05
6 um	10	8.58E+06	8.58E+07	28 um	10	8.45E+04	8.45E+05
7 um	10	5.41E+06	5.41E+07	29 um	10	7.60E+04	7.60E+05
8 um	10	3.62E+06	3.62E+07	30 um	10	6.87E+04	6.87E+05

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



Applications

Flow cytometry

Fluorescence microscope

Devouring research

Cell markers

Ordering Information

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