PRODUCT DATA SHEET

Streptavidin Fluorescent Particles

Description

Streptavidin is a protein (MW of approx. 66,000) made up of four identical subunits, each containing a high affinity binding site for biotin. It has the same biotin binding properties as avidin, but less non-specific binding is observed. It has been used both in immune assays and genomic assays for target detection.

Abvigen Streptavidin bead surfaces are designed as a matrix for simple and efficient methods such as:

Protein coated beads for the isolation of biotinylated compounds such as proteins, immunoglobulins, sugars, lectins or DNA/RNA and microRNA

Magnetic streptavidin coated beads can be used as substrates for both immune assays and genomic assays

Small fluorescently labeled streptavidin particles can be used as probes for detection.

Abvigen offers a wide variety of fluorescent particles coated with antibodies, Avidin, Biotin, Protein A and Protein G for the convenience of our customers.

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

Core diameter: 400 nm -7.9 um

Size: 5 ml

Concentration: 1 mg/ml

Surface: Streptavidin

Shape: Spherical

Density: 1.03 g/ccm

Composition: Fluorescent Polystyrene Particles

Form: Suspension

Store: Storage at 2 - 8 °C

Storage

This product should be stored at 2 - 8°C. **DO NOT FREEZE**.

Highlights

Beneficial to bioimaging and biosensing applications

Uniform and stable fluorescence

Available with functional groups for covalent binding

For 1 mg/ml of 0.1% w/v PS Fluorescent Particles

Diameter	Conc. mg/ml	Particles/mg	Particles/ml	Diameter	Conc. mg/ml	Particles/mg	Particles/ml
25 nm	1	1.16E+14	1.16E+14	10 um	1	1.82E+06	1.82E+06
50 nm	1	1.46E+13	1.46E+13	20 um	1	2.27E+05	2.27E+05
80 nm	1	3.55E+12	3.55E+12	30 um	1	6.74E+04	6.74E+04
100 nm	1	1.82E+12	1.82E+12	40 um	1	2.84E+04	2.84E+04
200 nm	1	2.27E+11	2.27E+11	50 um	1	1.46E+04	1.46E+04
300 nm	1	6.74E+10	6.74E+10	60 um	1	8.42E+03	8.42E+03
400 nm	1	2.84E+10	2.84E+10	70 um	1	5.30E+03	5.30E+03
500 nm	1	1.46E+10	1.46E+10	80 um	1	3.55E+03	3.55E+03
600 nm	1	8.42E+09	8.42E+09	90 um	1	2.50E+03	2.50E+03
700 nm	1	5.30E+09	5.30E+09	100 um	1	1.82E+03	1.82E+03
800 nm	1	3.55E+09	3.55E+09	200 um	1	2.27E+02	2.27E+02
900 nm	1	2.50E+09	2.50E+09	300 um	1	6.74E+01	6.74E+01
1 um	1	1.82E+09	1.82E+09	400 um	1	2.84E+01	2.84E+01
2 um	1	2.27E+08	2.27E+08	500 um	1	1.46E+01	1.46E+01
3 um	1	6.74E+07	6.74E+07	600 um	1	8.42E+00	8.42E+00
4 um	1	2.84E+07	2.84E+07	700 um	1	5.30E+00	5.30E+00
5 um	1	1.46E+07	1.46E+07	800 um	1	3.55E+00	3.55E+00
6 um	1	8.42E+06	8.42E+06	900 um	1	2.50E+00	2.50E+00
7 um	1	5.30E+06	5.30E+06	1 mm	1	1.82E+00	1.82E+00
8 um	1	3.55E+06	3.55E+06	3 mm	1	6.74E-02	6.74E-02
9 um	1	2.50E+06	2.50E+06				

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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 µm	3,500 x g	15 min	10 min sonication / vortex
2 – 4 µm	1,600 x g	15 min	vortex
5 - 8 µm	1,200 x g	10 min	vortex
> 8 µm	25 x g	10 min	vortex

Ordering Information

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