

Maleimide Magnetic Particles

Description

Maleimide is a novel nanoparticle surface functional group that is readily coupled to cell-penetrating peptides. Conjugation can be achieved by click chemistry, thereby preserving its biological function.Maleimide is used as a gelling agent, mixed with polystyrene microspheres and heated to react. During the reaction, the maleimide reacts with amino or other reactive groups on the surface of the polystyrene microspheres to form covalent bonding connections.And maleimide can improve the hydrophilicity and biocompatibility of polystyrene microspheres, making them more promising for biomedical applications.

Abvigen's Maleimide Magnetic Particles are superparamagnetic particles with excellent colloidal stability and biocompatible coating for biomedical applications including: in-vivo magnetic resonance imaging (MRI), magnetic particles imaging (MPI), magnetic sensing for in-vitro diagnostics, small molecular drug delivery, immunotherapy, hyperthermia, adjuvant for vaccine, etc.

For custom sizes, formulations or bulk quantities please contact our customer service department. website: <u>www.abvigen.com</u> Phone: +1 929-202-3014 Email: <u>info@abvigenus.com</u>

Characteristics

Size: 200mg Shape: Spherical Composition: Maleimide Magnetic Particles Density: 1.1 g/ccm Buffer: PBS Form: Suspension Store: Storage at 2 - 8 °C

Storage

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

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For 10 mg/ml of Maleimide Magnetic Particles

Diameter	Particles/mg	Particles/ml
0.1 um	1.74E+12	1.74E+13
0.15 um	5.14E+11	5.14E+12
0.25 um	2.17E+11	2.17E+12
0.5 um	1.39E+10	1.39E+11
1 um	1.74E+09	1.74E+10
3 um	6.43E+07	6.43E+08
4.5um	1.91E+07	1.91E+08

References

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[3]Thale P B, Borase P N, Shankarling G S. Magnetic nanocatalyst for the synthesis of maleimide and phthalimide derivatives[J]. RSC Advances, 2014, 4(103): 59454-59461.

Ordering Information

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