

SO3H Magnetic Particles

Description

SO3H is a sulfonic acid group, which is composed of one sulfur atom and three oxygen atoms, and has a unique structure and properties. Sulfonic Acid Group is a common functional group in organic chemistry with the structure of -SO3H. Sulfonic acid groups are connected to the alkyl sulfonic acid formation, it is between the positioning base, can make benzene passivation, makes difficult than benzene electrophilic substitution reaction to happen. The sulfonic acid group can be introduced by the sulfonation of benzene, either as an acid group or for occupancy, because the sulfonation is reversible and therefore it is easy to introduce as well as remove. Sulfonic acid groups are widely used, such as dyes, drugs, detergents and so on.

Abvigen's SO3H 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: www.abvigen.com Phone: +1 929-202-3014 Email: info@abvigenus.com

Characteristics

Reserved

Concentration: 10 mg/ml Size: 10 ml Surface: SO3H Shape: Spherical Composition: SO3H Magnetic Particles Density: 1.1 g/ccm Buffer: PBS Form: Suspension Store: Storage at 2 - 8 °C 1378 US-206 Ste 6-126, Skillman, NJ USA info@abvigenus.com Tel: 1-816-388- 0112 Fax: 1- 888-616-0161

Email:



Storage

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

For 10 mg/ml of SO3H Magnetic Particles

Diameter	Conc. mg/ml	Particles/mg	Particles/ml
130 nm	10	7.90E+11	7.90E+12

References

[1]Popova M, Trendafilova I, Szegedi Á, et al. Novel SO3H functionalized magnetic nanoporous

silica/polymer nanocomposite as a carrier in a dual-drug delivery system for anticancer therapy[J].

Microporous and Mesoporous Materials, 2018, 263: 96-105.

[2]Liu M, Liu Z, Qiao L. Preparation of a magnetic solid acid Fe3O4@ PS-SO3H and its use in hydrolysis of cellulose[J]. Journal of Chemical Technology & Biotechnology, 2024.

Ordering Information

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