Anisotropic Janus Particle
PRODUCT DATA SHEET

Anisotropic Janus Particle

Description

Anisotropic Janus Particle is a multifunctional nanomaterial named after the Roman double-sided god. The surface of this material is composed of two or more regions with different physical and chemical properties, forming a unique anisotropic structure. In the biomedical field, this material can achieve precise delivery of tumor drugs through pH response or targeted ligands (such as hyaluronic acid), and can also serve as an integrated probe for diagnosis and treatment, combining chemotherapy drugs, photosensitizers, and biomarker detection functions to enhance treatment efficacy and real-time monitoring capabilities. In the field of functional materials, its double-sided heterostructure is used to develop smart sensors, flexible electronic devices, and multifunctional Janus films, which have good thermochromic, piezoelectric signal generation, and efficient electromagnetic shielding properties. In addition, Anisotropic Janus Particle significantly improves reaction selectivity and stability in the field of catalysis by loading active components in different zones. The functional zoning design of the Anisotropic Janus Particle avoids the mutual interference of components with different properties, and aggregates multiple characteristics on a single nanoparticle to exert synergistic effects.

Abvigen Inc can provide high-quality anisotropic Janus Particles of various particle sizes. This product has uniform particle size and good surface adsorption performance, which can meet the personalized material needs of various customers in research and development, testing, production, and consumption.

For custom sizes, formulations or bulk quantities please contact our customer service department.

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Characteristics

Type: Anisotropic Janus Particle

Concentration: 100 mg/ml

Size: 10 ml

Surface: Plain

Composition: Poly(styrene-co-methyl methacrylate-co-styrene)

Standard deviation: CV<5%

Buffer: Ethanol

Store: Storage at 2 - 8 °C

Storage

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

Advantage

Uniform particle size

Surface modifiable

Good chemical stability

Good surface activity

Surface anisotropy

Applications

Drug delivery

Bioimaging

Biosensor

Functional material development

Ordering Information

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