Gold Nanobipyramids-1DDT
PRODUCT DATA SHEET

Gold Nanobipyramids-1DDT

Description

Gold Nanobipyramids-1DDT can significantly enhance the optical properties and catalytic activity of Gold Nanobipyramids.1-Dodecanrthiol (1DDT) contains a hydrophobic alkyl chain and a sulfur atom that is affinity for the gold surface.It can form a stable covalent bond with the surface of Gold Nanobipyramids. This modification not only improves the dispersibility and stability of Gold Nanobipyramids, but also enhances their surface plasmon resonance properties, which have important applications in optical imaging and biosensing fields. The sharp structure at both ends of Gold Nanobipyramids enhances the electric field effect significantly, which makes it exhibit excellent performance in surface plasmon resonance (SPR) detection, optical imaging, and catalytic reactions. Gold Nanobipyramids-1DDT can enhance the adsorption capacity of reactants, increase the catalytic reaction rate, and demonstrate extremely high sensitivity in solar cells and immune detection. In addition, 1DDT as a surfactant, can effectively regulate the surface activity of Gold Nanobipyramidates, promote their binding with other functional molecules, and expand the application prospects of the material in biomedical, catalytic, and sensing fields.

Abvigen Inc is able to provide high quality Gold Nanobipyramids-1DDT. This product is available in a wide range of capping agents. Each batch has good monodispersity, uniform size, and can meet the 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.

Website: www.abvigen.com Phone: +1 929-202-3014 Email: info@abvigenus.com

Characteristics

Size: 2.5 mg or others

Surface: 1-Dodecanrthiol

SPR: 700 nm - 980 nm

Shape: Bipyramid

Composition: Gold Nanobipyramids

Density: 19.32 g/ccm

Store: Storage at 2 - 8 °C

Storage

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

Advantage

Good biocompatibility

Good chemical stability

Good catalytic performance

Uniform particle size

Better electric field enhancement effect

Applications

Biomarkers

Biological imaging

Surface enhanced Raman substrate

Biosensors

Dark field optical imaging

Drug delivery carrier

Ordering Information

Website: www.abvigen.com

Phone: +1 929-202-3014

Email: info@abvigenus.com

1378 US-206 Ste 6-126, Skillman, NJ USA
Email: info@abvigenus.com
Tel: 1-816-388- 0112 Fax: 1- 888-616-0161