



Gold Nanobipyramids-1ODT PRODUCT DATA SHEET

Gold Nanobipyramids-1ODT

Description

Gold Nanobipyramids-1ODT is obtained by surface modification of Gold Nanobipyramids using 1-Octadecanethiol (1-ODT), which can improve the performance of Gold Nanobipyramids in optical and catalytic fields. ODT is a kind of alkane mercaptan with long carbon chain, which can form a stable sulfide film on the surface of Gold Nanobipyramids. This surface modification not only improves the superhydrophobicity and oxidation resistance of Gold Nanobipyramids, but also adjusts its optical properties, such as enhancing the electric field effect and improving the sensitivity of refractive index. Due to the strong local electric field enhancement effect of the tip shape of Gold Nanobipyramids-1ODT, this material exhibits excellent performance in surface plasmon resonance (SPR) applications. Widely used in fields such as biological immune detection, optical imaging, and catalysis, it has significant advantages in improving light capture efficiency and battery conversion efficiency.

Abvigen Inc is able to provide high quality Gold Nanobipyramids-1ODT. 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-Octadecanethiol

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

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Email: info@abvigenus.com