



Gold Nanobipyramids-1OT **PRODUCT DATA SHEET**

Gold Nanobipyramids-1OT

Description

Gold Nanobipyramids have excellent local electric field enhancement effect and high refractive index sensitivity due to their unique shape and optical properties. This makes it highly promising for surface plasmon resonance (SPR) applications. The sharp structure at both ends of Gold Nanobipyramids gives it stronger electric field enhancement ability and narrower extinction peak, making it suitable for multiple fields such as biological imaging, catalysis, and optical imaging. Especially in biological immune detection, Gold Nanobipyramids can effectively detect biomolecules through its highly sensitive optical properties. Modifying 1-Octanethiol (1OT) on the surface of Gold Nanobipyramids can enhance its dispersibility in organic phases and improve its binding ability with target molecules, further enhancing its performance in the fields of biosensors and catalysis. After 1OT modification, the stability and functionality of Gold Nanobipyramids are significantly enhanced, and they are widely used in optical sensors and biomedical fields.

Abvigen Inc is able to provide high quality Gold Nanobipyramids-1OT. 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-Octanethio

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