



## **Gold Nanobipyramids-1HDT**

### **PRODUCT DATA SHEET**

## **Gold Nanobipyramids-1HDT**

### **Description**

Gold Nanobipyramids-1HDT can be obtained by modifying Gold Nanobipyramids with 1-hexadecylthiol (1-HDT), and the stability of Gold Nanobipyramids can be improved through surface modification. After hydrophobic modification of the long alkyl chain of 1-HDT, the surface of Gold Nanobipyramids exhibits strong hydrophobicity, enhancing its ability to interact with hydrophobic molecules, making it suitable for drug delivery and hydrophobic molecule capture. The unique structure of Gold Nanobipyramids endows them with strong local electric field enhancement effect and high refractive index sensitivity, making them highly attractive in surface plasmon resonance applications. The application areas of Gold Nanobipyramids-1HDT include optical imaging, catalytic reactions, solar cells, and biological immune detection, especially in optical imaging and efficient catalysis, which have great potential.

Abvigen Inc is able to provide high quality Gold Nanobipyramids-1HDT. 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](http://www.abvigen.com) **Phone:** +1 929-202-3014 **Email:** [info@abvigenus.com](mailto:info@abvigenus.com)



### **Characteristics**

Size: 2.5 mg or others

Surface: 1-Hexadecanethiol

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](http://www.abvigen.com)

Phone: +1 929-202-3014

Email: [info@abvigenus.com](mailto:info@abvigenus.com)