



## **Gold Nanobipyramids-1DT** **PRODUCT DATA SHEET**

### **Gold Nanobipyramids-1DT**

#### **Description**

Decanethiol (1-DT) provides a hydrophobic surface coating for Gold Nanobipyramids, significantly improving their hydrophobicity and surface energy, thereby reducing the adhesion and permeation of liquids on their surfaces. Gold Nanobipyramids-1DT performs well in surface enhanced Raman scattering (SERS), and its improved spectral peak intensity improves the detection sensitivity. The unique shape and high specific surface area of Gold Nanobipyramids-1DT make it an ideal catalyst carrier and can be combined with materials such as quantum dots to enhance the light capture efficiency of solar cells. Its unique optical properties make Gold Nanobipyramids highly sensitive for applications in biological imaging and immune detection. The surface modification of 1-DT enhances the functionality of Gold Nanobipyramids, making them a nanomaterial with broad potential applications in optical imaging, catalysis, and energy fields.

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

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### **Characteristics**

Size: 2.5 mg or others

Surface: 1-Decanethiol

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)

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