

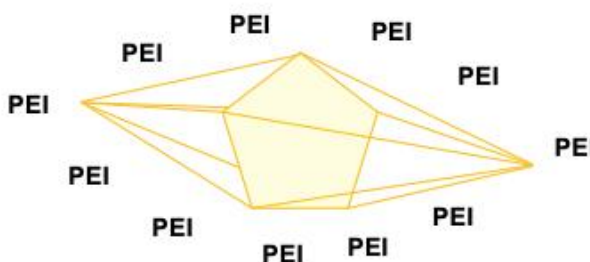


## Gold Nanobipyramids-PEI PRODUCT DATA SHEET

### Gold Nanobipyramids-PEI

#### Description

Gold Nanobipyramids-PEI are nanomaterials obtained by functionalizing the surface of gold nanobipyramids with PEI (Polyethylenimine). As a polymer surfactant, PEI can significantly improve the dispersibility of Gold Nanobipyramids in solution and make them more uniformly dispersed in solution. As a cationic polymer, PEI can effectively enhance the stability of Gold Nanobipyramids, prevent them from coagulation and precipitation in solution, and enable them to maintain their structure and function for a long period of time under physiological conditions. PEI contains abundant amino functional groups, it can be able to chemically bond with the negatively-charged functional groups on the surface of Gold Nanobipyramids, thus changing the surface properties and functions of the materials. Gold Nanobipyramids-PEI are ideal for a variety of applications due to their excellent optical properties, biocompatibility and stability. The localised surface plasmon resonance of these gold nanobipyramids is suitable for use in biomedical applications, which can improve drug targeting and bioavailability, as well as enhance the sensitivity and accuracy of bioimaging. In addition, PEI modification can increase the electrical conductivity and surface plasmonic properties of gold nanobipyramids, and PEI-modified gold nanobipyramids also perform well in catalytic reactions and are suitable for catalysing a wide range of chemical reactions.



Abvigen Inc is able to provide high quality Gold Nanobipyramids-PEI. 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**

Concentration: 0.05 mg/ml

Size: 5 ml or others

Surface: PEI

Shape: Bipyramid

Composition: Gold Nanobipyramids

Density: 19.32 g/ccm

Buffer: DI Water

Store: Storage at 2 - 8 °C

### **Storage**

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

### **Advantage**

Uniform particle size

High electromagnetic enhancement capability

Good chemical stability

Good dispersibility

### **Applications**

Biological immune testing

Protein labeling

Dark field optical imaging

Fluorescence enhancement

Surface enhanced Raman substrate

Drug carrier

### **Ordering Information**

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