Gold Nanobipyramids-11MU
PRODUCT DATA SHEET

Gold Nanobipyramids-11MU

Description

Gold Nanobipyramids have unique plasmonic resonance effects that enhance the responsiveness of optical signals. 11-Mercapto-1-undecanol (11MU) is an organic compound with thiol and alcohol groups. The thiol groups in 11MU can form stable sulfur gold bonds with the surface of Gold Nanobipyramids, it can improve their stability. At the same time, the hydrophilic alcohol groups in 11MU help prevent particle aggregation. By modifying with 11MU, Gold Nanobipyramids exhibit a unique plasmonic resonance effect that enhances the responsiveness of optical signals. The SPR signal can generate sensitive changes in the concentration of gases such as ethanol, enhancing the sensitivity and selectivity of the sensor. The chemical sensor based on Gold Nanobipyramidands-11MU does not require chemical labeling, is easy to operate, has high sensitivity, and fast response speed. Gold Nanobipyramids-11MU has a wide range of application prospects, not only for ethanol gas detection, but also for the detection of various gases and organic compounds such as ammonia and formaldehyde. It has extensive potential in environmental monitoring, food safety, industrial production and other fields.

Abvigen Inc is able to provide high quality Gold Nanobipyramids-11MU. 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: 11-Mercapto-1-undecanol

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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