

SpecNano™ Gold Nanostars, Reactant Free, 80 nm

Cat.No: CGS-80-RF

DESCRIPTION

Description

SpecNano™ Gold Nanostars, Reactant Free, 80 nm are extensively purified reactant free gold nanostars which are ideal for sensitive applications requiring a minimum amount of contaminating reactants remnant from the manufacturing process. The spiky uneven surface causes a red shift in the surface plasmon peak and a larger enhancement of electromagnetic fields at the tips of the spikes compared to that of a spherical particle. In addition, binding of ligands such as proteins to them causes a larger shift in the surface plasmon peak compared to standard spherical gold nanoparticles. The citrate-covered surface allows for efficient adsorption of primary antibodies and other proteins and easy functionalization through ligand-exchange with e.g., thiol-containing ligands such as PEG and oligonucleotides. Purity: >99% reactant free.

APPLICATION

Application Notes

Ideal for development of peptide and protein gold conjugates for use in applications such as blotting, lateral flow assays, LSPR assays, light microscopy, and transmission electron microscopy (TEM).
Ideal for cellular and cellular toxicity studies.

PRODUCT INFORMATION

Diameter	80 nm
Functional Group	Citric acid
Concentration	40.6 µg/mL@OD=1
Number of Particles	7.82E+09 particles/mL@OD=1



Optical Density	1 OD, 10 OD
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Absorption Max	620 nm
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STORAGE AND SHIPPING

Storage Buffer	0.1 mM phosphate buffered saline (PBS)
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Storage	4°C. Do not freeze.
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Shelf Life	The product is stable for at least six months when stored as specified.
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