

GOLD

NANOPARTICLES

QUICK FACTS

Product	:	Gold Nanoparticles
Stock No	:	NS6130-01-161
CAS	:	7440-57-5
Color	:	Brown/Yellow
Form	:	Powder

Gold nanoparticles have lots of benefits that why these are utilized in the biomedical field. These nanoparticles can be easily synthesized in various shapes with sizes ranging from 1 nm to more than 100 nm, such as a spherical, rod-like, cage. The optical and electrical properties of Au Nps can be changed by varying their shape and sizes. With the presence of a negative charge on Au NPs, they can be easily functionalized by all kinds of biomolecules, for instance targeting ligands, drugs, and genes. Au NPs are biocompatible and nontoxic. Au NPs have a

distinct surface effect, ultra-small size, macroscopic quantum tunneling effect, and the presence of surface plasmon resonance (SPR) bands. Spherical gold nanoparticles (Au Nss) are one of the most widely utilized gold nanostructures in drug-delivery applications. These nanoparticles have the potential for many biomedical applications, due to some properties such as large specific surface, high surface activity, strong antioxidant property, good biocompatibility, and suitability for manipulations at the molecular level.



APPLICATIONS

- ✓ Sensory probes
- ✓ Electronic conductors
- ✓ Therapeutic agents
- ✓ Organic photovoltaics
- ✓ Drug delivery in biological and medical applications
- ✓ Catalysis



Additional Powder Characteristics

Stock No.	Purity	APS
NS6130-01-161	99.9%	4-8nm
NS6130-01-162	99.9%	6-10nm
NS6130-01-163	99.9%	40-50nm

Technical Specification

Molecular Formula	Molecular Weight	Density	Melting Point	Boiling Point
Au	196.966 g/mol	19.30 g/cm ³	1064.18 °C	2970 °C

Properties

- ✓ Chemical Symbol: Au
- ✓ CAS No.: 7440-57-5

Chemical Composition

Product	Weight Percent (nominal)	
	Au	Other Metal
Gold Nanoparticles	99.9 %	1000ppm

Ordering Information and Stock Availability

- ✓ Product: Gold Nanoparticles
- ✓ Distribution: Global
- ✓ Stock Availability: Available
- ✓ Packing Sizes: 25Gms, 50Gms, 100Gms, 500Gms & Bulk Orders

Handling Recommendations

- ✓ Store in the original container in a dry location.
- ✓ Tumble contents prior to use to prevent segregation.
- ✓ Open containers should be stored in a drying oven to prevent moisture pickup.

Safety Recommendations

Download MSDS/SDS NS6130-01-161
 SDS are available from the Nanoshel
 Website at
<https://www.nanoshel.com/product/gold-nanoparticles-conjugates>

 /nanoshel

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