

Carboxyl Gold Nanoparticles

DESCRIPTION

Beijing Biotyscience Co. Ltd provides high-quality spherical gold nanoparticles of different sizes. The aqueous solution of gold nanoparticles presents orange, red, purple and other colors depending on the particle size. Gold nanoparticles have many applications in biology and medicine due to their unique optical and physical properties.

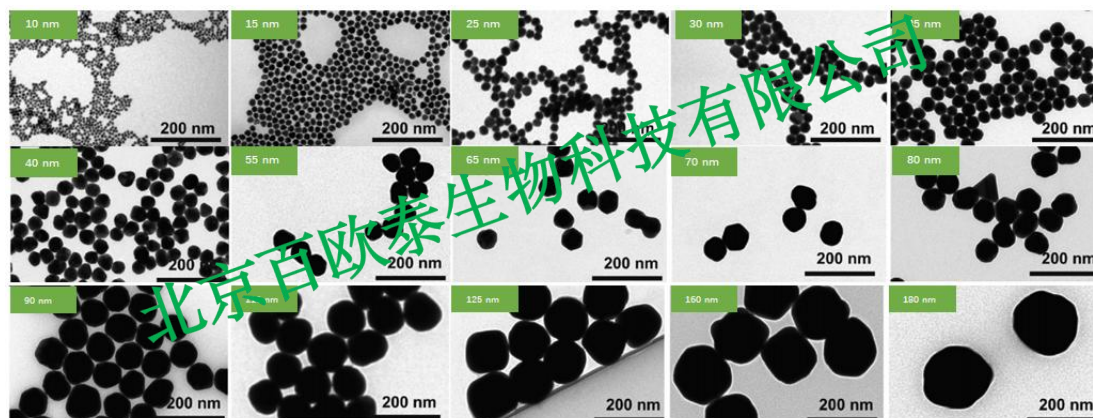
PEG-carboxyl is covalently bound to the metal surface. The acid provides a highly negatively charged surface and a chemical handle for further functionalization. Carboxyl surfaces can be used to covalently bind molecules with free amines (e.g. antibodies) to the surface of the particles. An amide bond between the acid surface and the free amine is formed using EDC/NHS chemistry.

By precisely engineering the gold nanoparticle surface, we also offer protein/antibody gold conjugates and particles with functional groups such as biotin, carboxyl, amine allowing them to be directly used in many applications.

PRODUCT INFORMATION

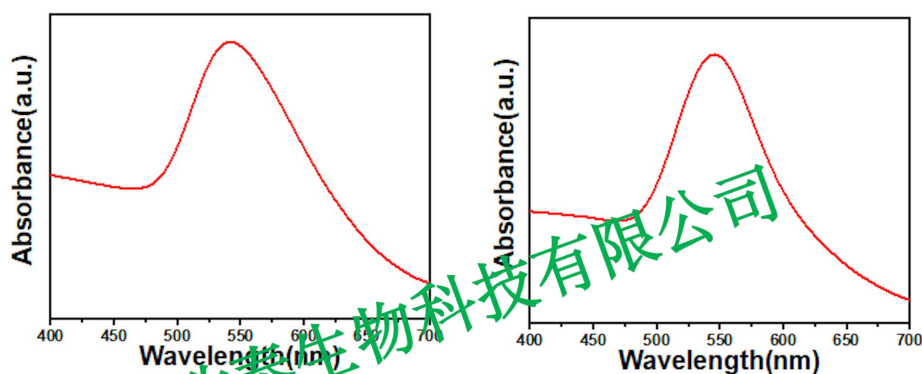
Type	Gold Nanoparticles
Diameter	1.8 nm - 1500 nm
Functional group	Carboxyl
Concentration	0.05 mg/ml (or others)
Buffer	Supplied in DI Water.
Size	10 ml
Storage	Stored at 2 - 8°C. Do not freeze. Protect from light.
Shelf life	6 months

Transmission electron microscopy (TEM)



Transmission electron microscopy (TEM) of Biotyscience gold nanoparticles of different sizes

UV-Vis spectrum



Gold Nanoparticles, 60 nm

Gold Nanoparticles, 80 nm

Applications

Conjugate Development

Lateral Flow Assays

Storage

Store product away from direct sunlight at 2-8 ° C.

Do NOT freeze. Freezing causes irreversible aggregation of the gold nanoparticles.

When stored as specified the product is stable for at least six months.

Contact Us

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