

## Gold nanoparticles with amine ([Catalog # GPA](#))

**Description:** GPA is a group of water soluble gold nanoparticles with amphiphilic polymer and PEG coating. Their surface functional group is amine. The zeta potential of GPA is from -10mV to +10mV. The thickness of the total organic layers is about 6 nm. The hydrodynamic size of the nanocrystals is about 12-14 nm larger than their inorganic core size measured by TEM.

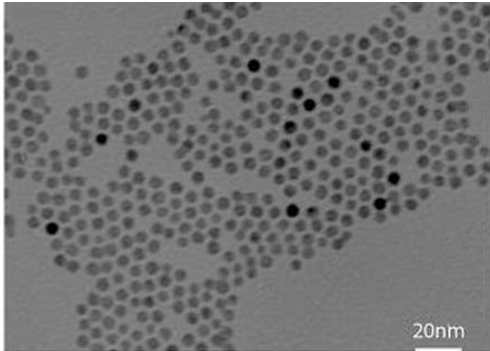
Since the zeta potential of GPA is close to zero, light precipitation may occur during storage. Please check the expiration date of the GPA products before conjugation.

The amine density of GPA is low due to the long PEG chain. During the conjugation process, please run the Electrophoresis Gel to check the conjugation efficiency.

<b>Catalog number:</b>	GPA
<b>Product name:</b>	Gold nanoparticles with amine
<b>Solvent:</b>	DI H <sub>2</sub> O
<b>Reactive group:</b>	Amine
<b>Storage:</b>	4-25°C; Do not freeze.
<b>pH stability:</b>	4-10
<b>Buffer stability:</b>	Stable in Borate, Tris, HEPES, PBS, MES.
<b>Shelf life:</b>	6 months
<b>Concentration:</b>	20 OD (Au)

<b>Au size (nm):</b>	6
<b>Size tolerance (nm):</b>	2
<b>Size distribution:</b>	<5%
<b>Molar concentration (M) (Au):</b>	5.48E-8

TEM image of 6 nm Au nanoparticles



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