

**TECHNICAL DATA SHEET**

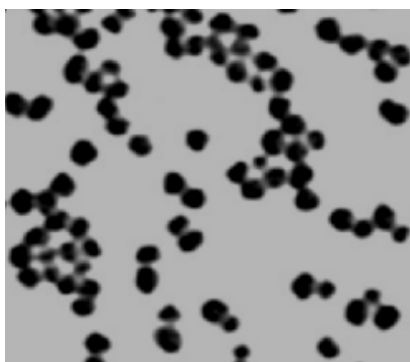
## NANOCS™ Gold Nanoparticles, Protein G coated

Catalog Numbers: GP2,3,5,10,15,20,30,40,50,60, 80, 100, 200-PrG-1

Synonym: Protein G Gold, Protein G Colloidal Gold Conjugate, Protein G Gold Particles, Protein G Gold Beads

### Description:

**Protein G coated Gold Nanoparticles (Protein G Gold)** from Nanocs are monodispersed gold nanoparticles with narrow size distribution (<15%). These particles were made from chemical reduction in de-ionized water solution. **Protein G** coated gold nanoparticles can bind to IgG protein with high affinity. Nanocs also developed a number of surface coated nanoparticles that provide superior stability and multifunctionality. These particles are useful for generating various gold nanoparticle probes to detect various biomolecules in SEM, TEM, light microscopy and blotting.



### Storage Conditions:

Protein G Gold conjugates should be stored at 2–8 °C for best use.

### Particle Concentration:

Particle Size (nm)	Concentration (mg/mL)	Particles/mL
2	0.5	7.5x10 <sup>15</sup>
3	0.5	6.0x10 <sup>15</sup>
5	0.5	2.5x10 <sup>14</sup>
10	0.5	2.8x10 <sup>13</sup>
15	0.5	6.0x10 <sup>12</sup>
20	0.5	3.5x10 <sup>12</sup>
30	0.5	1.0x10 <sup>12</sup>
40	0.5	4.5x10 <sup>11</sup>
50	0.5	2.3x10 <sup>11</sup>
80	0.5	1.3x10 <sup>11</sup>
100	0.5	5.5x10 <sup>10</sup>

**This product is for research use only and is not intended for use in humans or for diagnostic use.**

### Product Specifications:

- Appearance: Red, purple red or orange liquid depends on size;
- Composition: Protein G Gold Nanoparticle conjugates in 50 mM phosphate buffer, pH 7.4 with 10% glycerol, 0.1% BSA and 0.01% sodium azide;
- Particle size: 2~100 nm as labeled;
- Concentration: 0.05% (w/v) based on Au.  
Around 25~35 µg protein G per mL solution.

### To Order:

 Order online: **www.nanocs.net**

Order by Email: sales@nanocs.com

Order by phone: 1(800) 388-4221; 1(888) 908-8803

 For more information, visit [www.nanocs.net](http://www.nanocs.net)