

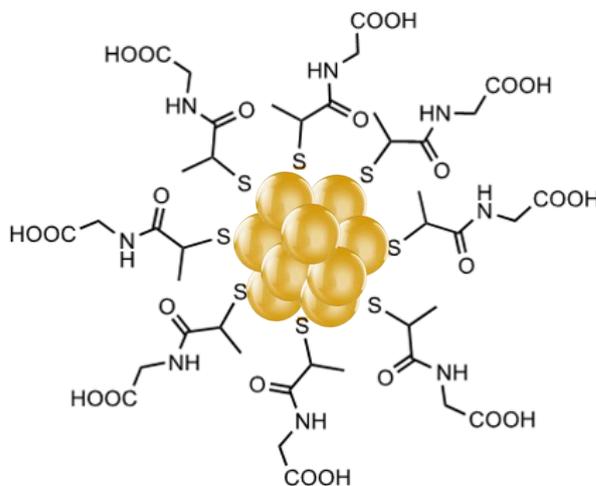
## NITgold cluster Tiopronin 3 nm

#51008715S, #51008715W, #51008717V

STORE AT 4°C away from light. **DO NOT FREEZE**

### Description

Gold clusters terminated by carboxylic acid groups are highly stable in aqueous media and they can be used to immobilize covalently biomolecules (antibodies, proteins, peptides, aminated molecules) by formation of stable amide bonds with primary amines. Tiopronin monolayer-protected gold clusters are water-soluble gold nanoparticles which means that can be repeatedly isolated and redissolved. Besides to their ease of functionalization, these clusters shows absence of agglutination in physiological conditions. Thus, they are useful tools for a wide variety of life science applications such as biosensing, bioimaging, drug delivery, cell interaction studies, immunolabeling, etc



### Technical Specifications

**Particle Surface:** Carboxylate groups

**Solvent:** Milli-Q Water

**Average Diameter (UHRTEM):** (2.8 ± 0.3) nm

**Nº cluster/mL :** ~ 1,00E+16

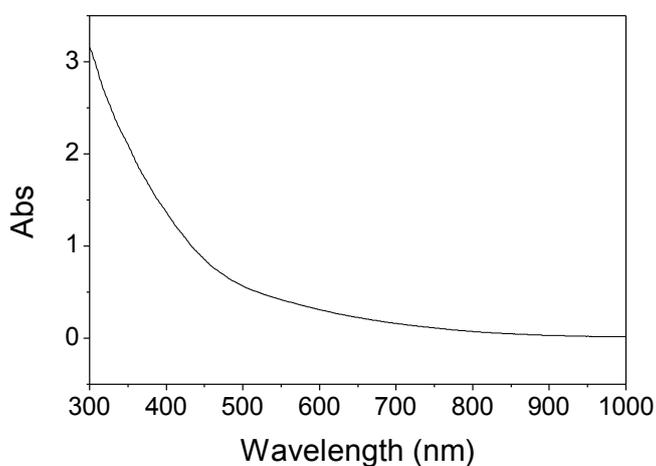


### Long Term Storage

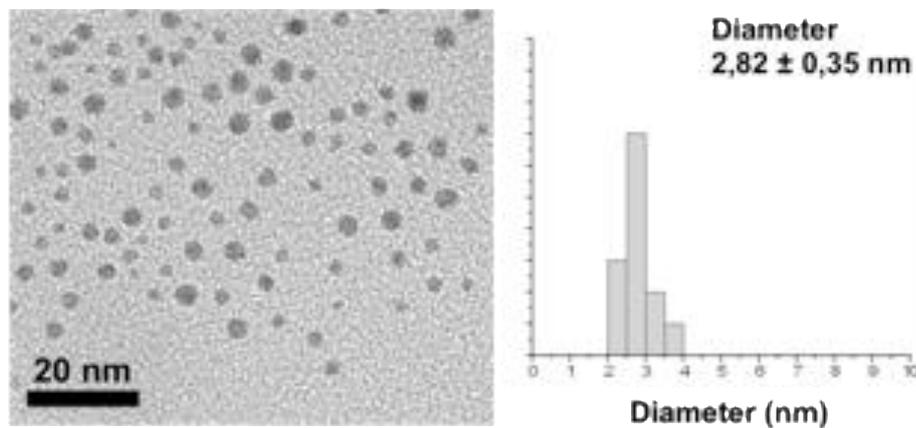
If stored unopened and as specified, NITgold cluster Tiopronin clusters are stable for at least 1 year.

### Optical absorption spectrum

UV/vis absorption spectrum showed a non-detectable surface plasmon band (SP band) as consequence of the small size of the clusters.



### UHRTEM images



### **Suggested Application(s)**

- Bioconjugation
- Immunocytochemistry
- Microscopy probe
- Cellular uptake
- Immunogold
- Immunosensing
- Optoelectronic
- Drug delivery
- Cell interaction studies

### **Ordering Information**

Product Name	Nº clusters/mL	Quantity (nmol)	Quantity (mL)	Catalogue No.
NITgold cluster Tiopronin 3nm	1,00E+16	16 nmol	1mL	51008715S
NITgold cluster Tiopronin 3nm	1,00E+16	80 nmol	5mL	51008715W
NITgold cluster Tiopronin 3nm	1,00E+16	400 nmol	25mL	51008717V

### **Product disclaimer**

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