

# Price List

Effective January 1, 2012



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## Nanogold® Reagents

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### 2020 Monomaleimido Nanogold®

**30 nmol \$376**

1.4 nm gold particle with single maleimide group for selectively labeling thiols (-SH). May be used to label primary Fab' antibody fragments, IgG, cysteine residues on proteins, or other sulfhydryl-containing compounds. 30 nmol provided: enough to label 200`g Fab'.

### 2020A Monomaleimido Nanogold In 5 aliquots

**30 nmol \$420**

Same total as 2020, but provided in 5 separate tubes. Since the maleimide moiety is unstable once dissolved separate aliquots are preferable if several smaller quantity labeling reactions are planned at different times.

### 2020S Monomaleimido Nanogold®

**6 nmol \$114**

Same as 2020, but packaged in an introductory size for smaller labeling experiments.

### 2021 Monoamino Nanogold®

**30 nmol \$272**

1.4 nm gold particle with a single primary amine may be used for labeling the carbohydrate moiety of glycoproteins or other applications.

### 2021A Monoamino Nanogold® In 5 aliquots

**30 nmol \$313**

Same total quantity as 2021, but provided in 5 separate tubes.

### 2021S Monoamino Nanogold®

**6 nmol \$79**

Same as 2021, but packaged in an introductory size for smaller labeling experiments.

### 2022 Positively Charged Nanogold®

**30 nmol \$275**

1.4 nm gold particles with a net positive charge; contains multiple amines. Use these particles for alternative coupling schemes, or to bind to negatively charged sites.

### 2023 Negatively Charged Nanogold®

**30 nmol \$275**

1.4 nm gold particles with a net negative charge; contains multiple carboxyl groups. Use these particles for alternative coupling schemes, or to bind to positively charged sites.

### 2025 Mono-Sulfo-NHS-Nanogold®

**30 nmol \$376**

1.4 nm gold particle with a single N-hydroxy-sulfosuccinimide group. Used for labeling primary amines.

### 2025A Mono-Sulfo-NHS-Nanogold® in 5 aliquots

**30 nmol \$420**

Same total quantity as 2025, but provided in 5 separate tubes. Since the NHS-ester hydrolyzes once dissolved, separate aliquots are preferable if several smaller quantity labeling reactions are planned at different times.

### 2025S Mono-Sulfo-NHS-Nanogold®

**6 nmol \$114**

Same as 2025, but packaged in an introductory size for smaller labeling experiments.

### 2010 Nanogold® Particles, non-functionalized

**30 nmol \$182**

1.4 nm gold particles only, lyophilized; non-reactive form.

### Custom Labelling with Nanogold®

Your antibody (IgG or Fab'), proteins, and other molecules.

**Contact us for quote**

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## Recombinant Protein Detection

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### Histidine-tagged Protein Detection

#### 2080: 1.8 nm Ni-NTA-Nanogold®

**3 mL at 10 µM \$370**

1.8 nm gold particles functionalized with nickel (II) nitriloacetic acid (NTA) chelates. Use for localizing and detecting polyhistidine-tagged targets in protein complexes, cells or tissues. Smaller than antibody probes.

#### 2082: 5 nm Ni-NTA-Nanogold®

**3 mL at 0.5 µM \$393**

5 nm gold particles functionalized with nickel (II) nitriloacetic acid (NTA) chelates. Use for localizing and detecting polyhistidine-tagged targets in protein complexes, cells or tissues. Go directly to EM without silver or gold enhancement.

### GoldiBlot™ His-tagged Protein

#### Western Blotting Detection

#### 2090 GoldiBlot™ HIS Western Blot Kit

**15 blots \$144**

Detection kit for recombinant His-tagged proteins, containing Ni-NTA-gold detection reagent and metallographic amplification reagent.

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## Nanogold® Conjugates

0.5 mL \$203 or 1.0 mL \$314:

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### 2001 Nanogold® - anti mouse IgG

1.4 nm gold particle attached to affinity-purified IgG molecule, raised in goat, against mouse IgG (whole molecule).

### 2002 Nanogold® - anti mouse Fab'

1.4 nm gold particle attached to affinity-purified Fab' fragment, raised in goat, against mouse IgG whole molecule).

### 2003 Nanogold® - anti rabbit IgG

1.4 nm gold particle attached to affinity-purified IgG molecule, raised in goat, against rabbit IgG (whole molecule).

### 2004 Nanogold® - anti rabbit Fab'

1.4 nm gold particle attached to affinity-purified Fab' fragment, raised in goat, against rabbit IgG whole molecule).

### 2005 Nanogold® - anti goat IgG

1.4 nm gold particle attached to affinity-purified IgG molecule, raised in rabbit, against goat IgG (whole molecule).

### 2006 Nanogold® - anti goat Fab'

1.4 nm gold particle attached to affinity-purified Fab' fragment, raised in rabbit, against goat IgG (whole molecule).

### 2007 Nanogold® - anti rat IgG

1.4 nm gold particle attached to affinity-purified IgG molecule, raised in goat, against rat IgG (whole molecule).

### 2008 Nanogold® - anti rat Fab'

1.4 nm gold particle attached to affinity-purified Fab' fragment, raised in goat, against rat IgG (whole molecule).

### 2015 Nanogold® - anti biotin IgG

1.4 nm gold particle attached to anti-biotin IgG molecule, raised in goat.

### 2016 Nanogold® - streptavidin

1.4 nm gold particle attached to streptavidin.

### 2050 Nanogold® - anti sheep IgG

1.4 nm gold particle attached to affinity-purified IgG molecule, raised in rabbit, against sheep IgG (whole molecule).

### 2051 Nanogold® - anti sheep Fab'

1.4 nm gold particle attached to affinity-purified Fab' fragment, raised in rabbit, against sheep IgG (whole molecule).

### 2052 Nanogold® - anti human IgG

1.4 nm gold particle attached to affinity-purified IgG molecule, raised in goat, against human IgG (whole molecule).

### 2053 Nanogold® - anti human Fab'

1.4 nm gold particle attached to affinity-purified Fab' fragment, raised in goat, against human IgG (whole molecule).

### 2054 Nanogold® - anti guinea pig IgG

1.4 nm gold particle attached to affinity-purified IgG molecule, raised in goat, against guinea pig IgG (whole molecule).

### 2055 Nanogold® - anti guinea pig Fab'

1.4 nm gold particle attached to affinity-purified Fab' fragment, raised in goat, against guinea pig IgG (whole molecule).

### Custom Labeling with Nanogold®

Your primary antibody (IgG or Fab'), proteins, peptides, lectins, and other molecules.

Contact us for quote

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## AuroVist™

### AuroVist™ - 1.9 nm Gold Nanoparticle

#### X-ray Contrast Agent

#### 1102: AuroVist™ - 1.9 nm

40 mg Au \$192

1.9 nm gold nanoparticles containing 40 mg gold metal. Ready to be reconstituted in water, PBS, or other buffer.

#### 1102A: AuroVist™ - 1.9 nm, 5 vials

5 x 40 mg = 200 mg Au total \$749

Five vials of 1.9 nm gold nanoparticles, each containing 40 mg gold metal. Ready to be reconstituted in water, PBS, or other buffer.

### AuroVist™ - 15 nm Gold Nanoparticle

#### X-ray Contrast Agent

#### 1115 : AuroVist™ II – 15 nm

40 mg Au \$192

15 nm gold nanoparticles containing 40 mg gold metal. Ready to be reconstituted in water, PBS, or other buffer

#### 1115A: AuroVist™ II – 15 nm, 5 vials

5 x 40 mg = 200 mg Au total \$749

Five vials of 15 nm gold nanoparticles, each containing 40 mg gold metal. Ready to be reconstituted in water, PBS, or other buffer.

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## FluoroNanogold™

0.5 mL \$268 or 1.0 mL \$410

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### Alexa Fluor®\* 488 - FluoroNanogold™

#### 7202: FluoroNanogold™ anti mouse Fab' Alexa Fluor®\* 488

1.4 nm gold particle and fluorophore, Alexa Fluor®\* 488 attached to affinity purified Fab' fragment, raised in goat, against mouse IgG (whole molecule).

#### 7204: FluoroNanogold™ anti rabbit Fab' Alexa Fluor®\* 488

1.4 nm gold particle and fluorophore, Alexa Fluor®\* 488 attached to affinity purified Fab' fragment. raised in goat, against rabbit IgG (whole molecule).

#### 7206: FluoroNanogold™ -anti-goat Fab'-Alexa Fluor®\* 488

1.4 nm gold particle and fluorophore, Alexa Fluor®\* 488 attached to affinity-purified Fab' fragment. raised in rabbit, against goat IgG (whole molecule).

#### 7255: FluoroNanogold™ -anti-guinea pig Fab'-Alexa Fluor®\* 488

1.4 nm gold particle and fluorophore, Alexa Fluor®\* 488 attached to affinity-purified Fab' fragment. raised in goat, against guinea pig IgG (whole molecule).

**Custom labeling available. Call for quote.**

### Alexa Fluor®\* 594 - FluoroNanogold™

#### 7302: FluoroNanogold™ -anti-mouse Fab'-Alexa Fluor®\* 594

1.4 nm gold particle and fluorophore, Alexa Fluor®\* 594 attached to affinity-purified Fab' fragment, raised in goat, against mouse IgG (whole molecule).

#### 7304: FluoroNanogold™ -anti-rabbit Fab'-Alexa Fluor®\* 594

1.4 nm gold particle and fluorophore, Alexa Fluor®\* 594 attached to affinity-purified Fab' fragment, raised in goat, against rabbit IgG (whole molecule).

**Custom labeling available. Contact us for quote.**

### Alexa Fluor®\* 546 - FluoroNanogold™

#### 7402: FluoroNanogold™ -anti-mouse Fab'-Alexa Fluor®\* 546

1.4 nm gold particle and fluorophore, Alexa Fluor®\* 546 attached to affinity-purified Fab' fragment, raised in goat, against mouse IgG (whole molecule).

#### 7404: FluoroNanogold™ -anti-rabbit Fab'-Alexa Fluor®\* 546

1.4 nm gold particle and fluorophore, Alexa Fluor®\* 546 attached to affinity-purified Fab' fragment, raised in goat, against rabbit IgG (whole molecule).

**Custom labeling available. Contact us for quote.**

#### 7208: FluoroNanogold™ -anti-rat Fab'-Alexa Fluor®\* 488

1.4 nm gold particle and fluorophore, Alexa Fluor®\* 488 attached to affinity-purified Fab' fragment. raised in goat, against rabbit IgG (whole molecule).

#### 7251: FluoroNanogold™ -anti-sheep Fab'-Alexa Fluor®\* 488

1.4 nm gold particle and fluorophore, Alexa Fluor®\* 488 attached to affinity-purified Fab' fragment. raised in rabbit, against sheep IgG (whole molecule).

#### 7253: FluoroNanogold™ -anti-human Fab'-Alexa Fluor®\* 488

1.4 nm gold particle and fluorophore, Alexa Fluor®\* 488 attached to affinity-purified Fab' fragment. raised in goat, against human IgG (whole molecule).

#### 7216: FluoroNanogold™ -streptavidin Alexa Fluor®\* 488

1.4 nm gold particle and fluorophore, Alexa Fluor®\* 488 attached to streptavidin.

\* Alexa Fluor is a registered trademark of Life Technologies / Invitrogen Corporation / Molecular Probes.

#### 7355: FluoroNanogold™ -anti-guinea pig Fab'-Alexa Fluor®\* 594

1.4 nm gold particle and fluorophore, Alexa Fluor®\* 594 attached to affinity-purified Fab' fragment. raised in goat, against guinea pig IgG (whole molecule).

#### 7316: FluoroNanogold™ -streptavidin Alexa Fluor®\* 594

1.4 nm gold particle and fluorophore, Alexa Fluor®\* 594 attached to streptavidin.

\* Alexa Fluor is a registered trademark of Life Technologies / Invitrogen Corporation / Molecular Probes.

#### 7455: FluoroNanogold™ -anti-guinea pig Fab'-Alexa Fluor®\* 546

1.4 nm gold particle and fluorophore, Alexa Fluor®\* 546 attached to affinity-purified Fab' fragment. raised in goat, against guinea pig IgG (whole molecule).

#### 7416: FluoroNanogold™ -streptavidin Alexa Fluor®\* 546

1.4 nm gold particle and fluorophore, Alexa Fluor®\* 546 attached to streptavidin.

\* Alexa Fluor is a registered trademark of Life Technologies / Invitrogen Corporation / Molecular Probes.

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## Fluorescein FluoroNanogold™

### 7002: FluoroNanogold™ -anti-mouse Fab'-Fluorescein

1.4 nm gold particle and fluorophore, Fluorescein attached to affinity-purified Fab' fragment, raised in goat, against mouse IgG (whole molecule).

### 7004: FluoroNanogold™ -anti-rabbit Fab'-Fluorescein

1.4 nm gold particle and fluorophore, Fluorescein attached to affinity-purified Fab' fragment. raised in goat, against rabbit IgG (whole molecule).

### 7055: FluoroNanogold™ -anti-guinea pig Fab'-Fluorescein

1.4 nm gold particle and fluorophore, Fluorescein attached to affinity-purified Fab' fragment raised in goat, against guinea pig IgG (whole molecule).

### 7016: FluoroNanogold™ -streptavidin Fluorescein

1.4 nm gold particle and fluorophore, Fluorescein attached to streptavidin

Custom labeling available. Contact us for quote.

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## Gold Lipids

### 4020 Palmitoyl Nanogold® \$348

30 nmol

The C<sub>15</sub> palmitic acid (a fatty acid) covalently attached to a 1.4 nm Nanogold® particle.

### 4021 DPPE Nanogold® \$382

30 nmol

Dipalmitoyl phosphatidylethanolamine covalently attached to a 1.4 nm Nanogold® particle.

### 4022 Palmitoyl Undecagold \$302

30 nmol

The C<sub>15</sub> palmitic acid (a fatty acid) covalently attached to a 0.8 nm undecagold particle.

### 4023 DPPE Undecagold \$330

30 nmol

Dipalmitoyl phosphatidylethanolamine covalently attached to a 0.8 nm undecagold particle.

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## Gold Nanomaterials

### 3012 1-Mercapto-(triethylene glycol) methyl ether functionalized gold nanoparticles

80 mg \$314

The thiol covalently attached to the 3-5 nm gold nanoparticle. Soluble in a variety of solvents including toluene, chloroform, ethyl acetate, acetone, water and alcohols.

### 3013 (1-Mercaptoundec-11-yl)tetraethyleneglycol gold nanoparticles

80 mg \$314

The thio covalently attached to the 3-5 gold nanoparticle. Soluble in alcohol and water.

### 3014 Dodecanethiol functionalized gold nanoparticles

80 mg \$285

The thiol covalently attached to the 3-5 nm gold nanoparticle. Use in organic solvents such as toluene.

### 3015 Octanethiol functionalized gold nanoparticles

80 mg \$339

The thiol covalently attached to the 2-4 nm gold nanoparticle. Use in organic solvents such as toluene.

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## Silver Enhancers

### 2012 HQ Silver

Highest quality enhancer for Nanogold® giving uniform development and excellent structural preservation. especially for EM; light sensitive. 45 mL total.

### Initiator/Moderator/Activator (\$147)

15 mL of each

### 2013 LI Silver

A convenient silver enhancer for Nanogold® for EM, LM, gels and blots; light insensitive. 250 mL total.

### Initiator/Enhancer (\$95)

125 mL of each

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## GoldEnhance

### 2112 GoldEnhance LM/Blot (GELM)

Gold developer formulated for use with light microscopy samples. Comes in four solutions, to be mixed just before use. 60 mL total, enough for 600 slides (100 microliters/slide).

### Initiator/Moderator/Activator/Buffer (\$183)

15 mL of each

### 2113 GoldEnhance EM (GEEM)

Gold developer formulated for use with electron microscopy samples. Comes In four solutions, to be mixed just before use. 8 mL total, enough for 200 grids (25 microliters/grid).

### Initiator/Moderator/Activator/Buffer (\$99)

2 mL of each

**EnzMet™ Metallographic HRP substrate****6001 EnzMet™ IHC / ISH HRP Detection Kit\***  
**150 slides, 30 mL \$104**

EnzMet™ metallographic substrate for horseradish peroxidase. formulated for immunohistochemistry (IHC) and *in situ* hybridization (ISH) applications.

\* Not formulated or approved for clinical use or use in automated slide stainers. Contact Ventana Medical Systems for all automated and clinical applications.

**6002 EnzMet™ Western Blot HRP Detection Kit**  
**100 mL \$276**

EnzMet™ metallographic substrate for horseradish peroxidase. formulated for highest sensitivity in immunoblotting applications.

**6010 EnzMet™ for General Research Applications**  
**45 mL \$256**

EnzMet™ metallographic substrate for horseradish peroxidase. formulated for other research applications.

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**Negative Stains**

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**2011 NanoVan®**  
**5 mL \$99**

A 2% Vanadium negative stain recommended for use with Nanogold® or other applications where a low atomic number light stain is needed.

**2018 Nano-W®**  
**5 mL \$99**

A 2% negative stain based on an organotungsten compound.

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**Undecagold Reagents**

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**2030 Monomaleimido Undecagold**  
**50 nmol \$395**

Au<sub>11</sub> cluster with single maleimide group for selectively labeling thiols (-SH). May be used to label primary Fab' antibody fragments, cysteine groups on proteins, or other sulfhydryl containing compounds. Reagent and procedure to label 300`g Fab'.

**2030A Monomaleimido Undecagold In 5 aliquots**  
**50 nmol \$441**

Same total quantity as 2030, but provided in 5 separate tubes. Since the maleimide moiety is unstable once dissolved, separate aliquots are preferable if several smaller quantity labeling reactions are planned at different times.

**2030S Monomaleimido Undecagold**  
**10 nmol \$113**

Same as 2030, but packaged in an introductory size for smaller labeling experiments.

**2031 Monoamino Undecagold**  
**50 nmol \$271**

Au<sub>11</sub> cluster with a single primary amine. May be used for labeling the carbohydrate moiety of glycoproteins or other uses.

**2031A Monoamino Undecagold In 5 aliquots**  
**50 nmol \$313**

Same total quantity as 2031. but provided in 5 separate tubes.

**2031S Monoamino Undecagold**  
**10 nmol \$79**

Same as 2031, but packaged in an introductory size for smaller labeling experiments.

**2043 Positively Charged Undecagold**  
**50 nmol \$272**

Undecagold with a net positive charge; contains amino groups.

**2044 Negatively Charged Undecagold**  
**50 nmol \$272**

Undecagold with a net negative charge; contains carboxyl groups.

**2045 Mono-Sulfo-NHS-Undecagold**  
**50 nmol \$395**

Undecagold with a single N-hydroxy-sulfosuccinimidyl group. Used for labeling primary amines.

**2045A Mono-Sulfo-NHS-Undecagold In 5 aliquots**  
**50 nmol \$441**

Same total quantity as 2045 but provided in 5 separate tubes.

**2045S Mono-Sulfo-NHS-Undecagold**  
**10 nmol \$113**

Same as 2045, but packaged in an introductory size for smaller labeling experiments.

**2060 Undecagold Particles, non-functionalized**  
**50 nmol \$182**

Undecagold particles only, lyophilized; non-reactive form.

**Custom labeling available. Contact us for quote.**