



DiagNano™ Maleimide-Activated Gold Nanoparticle Conjugation Kits, 100 nm

Cat.No: MGK-10K-100

DESCRIPTION

Description DiagNano™ Maleimide-Activated Gold Nanoparticle Conjugation Kits, 100 nm (Cat# MGK-100) is a one-step procedure to covalently conjugate proteins and other thiol-containing ligands to 100 nm gold nanoparticles. There is a PEG (10 kDa)-spacer between the gold surface and maleimide-groups. The kit contains buffers and lyophilized 100 nm maleimide-activated gold nanoparticles.

APPLICATION

Application Notes Used for high efficiency one-step conjugation of thiol-containing ligands such as oligonucleotides to gold nanoparticles.

KIT COMPONENTS

| Kit Components | Kit Components | Storage |
|----------------|---|---------|
| | 100 nm Maleimide-Activated Gold Nanoparticles (lyophilized) | -20°C |
| | Protein Resuspension Buffer | -20°C |
| | Reaction Buffer | -20°C |
| | Quencher Solution | -20°C |

PRODUCT INFORMATION

| | |
|------------------------------|--|
| Diameter | 100 nm |
| Functional Group | Maleimide |
| Number of Particles | ~7.68E+10 (when dissolved to a final volume of 100 µL) |
| Optical Density | OD=20 (when dissolved to a final volume of 100 µL) |
| Absorption Max | 572 nm |
| Surface Group Density | ~ 1 maleimide group/nm ² |