



Amine Silver Nanoparticles-PEG5K **PRODUCT DATA SHEET**

Amine Silver Nanoparticles-PEG5K

Description

Cytodiagnostics amine spherical silver nanoparticles are available in 9 different sizes ranging from 5 nm ~ 100 nm and are also available with 2 different spacer lengths (3 kDa and 5 kDa), allowing for better optimization.

Our unique silver nanoparticles synthesis and purification protocols consistently produce high quality monodisperse silver nanoparticles with a narrow size distribution (CV < 18%) and high purity.

Cytodiagnostics nano silver products are ideal for a wide range of applications including photovoltaics, biological sensor development and nanotoxicology studies.

For custom sizes, formulations or bulk quantities please contact our customer service department.

Website: www.abvigen.com **Phone:** +1 929-202-3014 **Email:** info@abvigenus.com

Characteristics

Core diameter: 5 ~ 100 nm

Size dispersity: Coefficient of Variance (CV) < 18%

Surface functional group: PEG5K-NH₂

Concentration: 1 mg/ml

Polydispersity Index (PDI): < 0.25

Absorbance (λ_{max}): 390 ~ 490 nm

Supplied in ddH₂O

Advantages

Monodisperse

Well defined sizes from 5 nm to 100 nm

Precisely engineered & functionalized surfaces

Extensive range of surface functionalities designed for in vitro and in vivo applications



Application

Ideal for development of silver conjugates for use in for example:

Immunoblotting

Lateral Flow Assays

LSPR Assays

Microscopy Applications (e.g. TEM, Darkfield)

Storage

This product should be stored away from light at 4°C. **DO NOT FREEZE.** If stored as specified, the product is stable for at least 4 months.

Handling

When stored for a long period of time silver nanoparticles may sediment at the bottom of the vial, which is especially true for larger particle sizes. Prior to use, re-suspend the sedimented particles by swirling until a homogenous solution is obtained.

Note

These products are for R&D use only, not for drug, household, or other uses.

Ordering Information

Website: www.abvigen.com

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Email: info@abvigenus.com