



## Product Information

### PEG coated UCNPs

**Cat. No.:** X26-05-ZQ351

**Size:** 100 mg; 250 mg; 500 mg; 1 g; 5 g

**Synonym:** PEGylated upconversion nanoparticles; Polyethylene glycol-modified UCNPs; PEG-encapsulated UCNPs nanoconjugates

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

#### Product Information

**Description** These poly(ethylene glycol) (PEG) coated upconversion nanoparticles (UCNPs) feature a luminescent core modified with a dense layer of hydrophilic polymer chains. The PEG coating provides superior steric stabilization, preventing nanoparticle aggregation in high-ionic-strength laboratory buffers. The resulting structure is optimized to minimize non-specific adsorption of proteins and other biomolecules during experimental procedures.

**Source** Custom synthesis

**Functional Group** PEG

**Form** Solid or powder

**Purity**  $\geq 95\%$

**Impurities** No visible impurities to the naked eye.

**Identity** HPLC/MS/NMR

**Stability** This product is stable for one year when stored at the recommended temperature in lyophilized powder.

**Quality Level** Research grade

**Storage** Store at  $-20^{\circ}\text{C}$ .