



Product Information

DSPE-PEG modified UCNPs

Cat. No.: X26-05-ZQ247

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

Synonym: DSPE-PEG-functionalized UCNPs; PEGylated DSPE-modified upconversion nanoparticles; DSPE-PEG-coated UCNPs

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

Product Information

Description	These 1,2-distearoyl-sn-glycero-3-phosphoethanolamine-poly(ethylene glycol) (DSPE-PEG) modified upconversion nanoparticles (UCNPs) utilize an amphiphilic lipid-peg coating to encapsulate a hydrophobic luminescent core. The composition provides a highly stable aqueous dispersion with a biocompatible peg interface. The physical structure is designed to maintain the high brightness of the inorganic core within a water-dispersible lipid-based shell.
Source	Custom synthesis
Functional Group	DSPE-PEG
Form	Solid or powder
Purity	≥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°C.