

Product Information

Amine-PEG modified UCNPs

Cat. No.: X26-05-ZQ140

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

Synonym: NH₂-PEG-functionalized upconversion nanoparticles; Amine-terminated PEG-modified UCNPs; PEG-amine-conjugated upconversion nanoconjugates

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

Product Information

Description	These amine-terminated poly(ethylene glycol) (Amine-PEG) modified upconversion nanoparticles (UCNPs) feature a rare-earth doped fluoride core surface-modified with pegylated amine groups. The composition provides a hydrophilic surface with reactive amino groups for covalent binding with carboxylic acids or other functional ligands. The structure is optimized for high water dispersibility and minimal non-specific adsorption in analytical research.
Source	Custom synthesis
Excitation	980 nm
Emission	540 nm
Functional Group	Amine-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.