

Product Information

PEI functionalized core-shell UCNPs

Cat. No.: X26-05-ZQ166

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

Synonym: Polyethylenimine-modified core-shell UCNPs; PEI-coated upconversion core-shell nanoparticles; PEI-conjugated core-shell nanostructures

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

Product Information

Description	These polyethylenimine (PEI) functionalized core-shell upconversion nanoparticles (UCNPs) consist of a luminescent core-shell fluoride matrix surface-modified with a layer of branched polyethylenimine polymer. The composition provides an abundance of amino groups and a strong positive surface charge that ensures stable dispersion in aqueous environments. The structure is designed to be a versatile platform for the electrostatic adsorption of diverse anionic molecules and materials.
Source	Custom synthesis
Excitation	980 nm
Color of Fluorescence	Green
Functional Group	PEI
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.