

Product Information

PEI modified multi-layer core-shell UCNPs

Cat. No.: X26-05-ZQ349

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

Synonym: Polyethylenimine-functionalized multi-shell UCNPs; PEI-coated multilayer core-shell UCNPs; PEI-modified multi-layer upconversion nanohybrids

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

Product Information

Description	These polyethylenimine (PEI) modified multi-layer core-shell upconversion nanoparticles (UCNPs) feature a complex multi-shell architecture surface-modified with a branched polyethylenimine layer. The composition is engineered to maximize luminescence brightness through multiple layers and ensure water stability through a positive surface charge. The resulting structure is a high-performance platform for studies requiring intense upconversion light and an amine-rich surface.
Source	Custom synthesis
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.