



## Product Information

### PEI functionalized UCNPs

**Cat. No.:** X26-05-ZQ176

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

**Synonym:** Polyethylenimine-modified UCNPs; PEI-coated upconversion nanoparticles; Cationic PEI-functionalized upconversion nanophosphors

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

#### Product Information

<b>Description</b>	These polyethylenimine (PEI) functionalized upconversion nanoparticles (UCNPs) are rare-earth doped fluoride crystals modified with a layer of branched polyethylenimine to achieve a high positive surface charge. The composition is designed for immediate dispersion in water where the pei chains provide both steric and electrostatic stabilization. The resulting structure is particularly suited for studies requiring a high density of primary and secondary amine groups on the nanoparticle surface.
<b>Source</b>	Custom synthesis
<b>Excitation</b>	808 nm
<b>Color of Fluorescence</b>	Blue
<b>Functional Group</b>	PEI
<b>Form</b>	Solid or powder
<b>Purity</b>	≥95%
<b>Impurities</b>	No visible impurities to the naked eye.
<b>Identity</b>	HPLC/MS/NMR
<b>Stability</b>	This product is stable for one year when stored at the recommended temperature in lyophilized powder.
<b>Quality Level</b>	Research grade
<b>Storage</b>	Store at -20°C.