



## Product Information

### Protein A modified rare-earth UCNPs

**Cat. No.:** X26-05-ZQ732

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

**Synonym:** Protein A-functionalized RE-UCNPs; Protein A-conjugated upconversion nanoparticles; Protein A-labeled rare-earth nanophosphors

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

#### Product Information

<b>Description</b>	These protein A modified rare-earth upconverting nanoparticles (UCNPs) feature a surface coating of protein A, which specifically binds the Fc region of various immunoglobulins. This modification enables the oriented capture of antibodies on the nanoparticle surface for high-sensitivity optical detection research. The rare-earth core provides bright, photostable upconversion luminescence that remains unaffected by the protein A conjugation.
<b>Source</b>	Custom synthesis
<b>Functional Group</b>	Protein A
<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.