

## Product Information

### Dextran modified $\beta$ -NaYF<sub>4</sub>:Yb,Er UCNPs

**Cat. No.:** X26-05-ZQ089

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

**Synonym:** Dextran-functionalized  $\beta$ -NaYF<sub>4</sub>:Yb,Er; Dextran-modified  $\beta$ -phase green UCNPs; Dextran-coated  $\beta$ -NaYF<sub>4</sub>:Yb,Er nanostructures

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

#### Product Information

<b>Description</b>	These dextran modified beta-sodium yttrium fluoride ytterbium erbium upconversion nanoparticles (Dextran modified $\beta$ -NaYF <sub>4</sub> :Yb,Er UCNPs) are hexagonal phase crystals coated with a layer of glucose polymer. The composition relies on the dextran shell to provide water solubility and colloidal stability through steric hindrance. The structure maintains the high upconversion efficiency of the beta-phase fluoride core for green and red emissions.
<b>Source</b>	Custom synthesis
<b>Functional Group</b>	Dextran
<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.