

Product Information

NaYF₄:Yb,Er@NaYF₄@mSiO₂

Cat. No.: X26-05-ZQ345

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

Synonym: mSiO₂-coated NaYF₄:Yb,Er@NaYF₄; Mesoporous silica-encapsulated green core-shell UCNPs; mSiO₂-shell core-shell nanostructures

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

Product Information

Description	These upconversion nanoparticles at mesoporous silica (NaYF ₄ :Yb,Er@NaYF ₄ @mSiO ₂) consist of a green-emitting core-shell particle encapsulated in a mesoporous silica shell. The composition provides an intense green luminescence and a high surface area silica shell with uniform pores. The resulting structure is optimized for research involving light-driven catalysis and the loading of various guest molecules into the porous shell.
Source	Custom synthesis
Particle Size	50 nm
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.