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Product Information

PAA modified $NaYF_4$:Yb,Er@$NaYF_4$ core-shell UCNPs

Cat. No.: X26-05-ZQ150

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

Synonym: Polyacrylic acid-modified $NaYF_4$:Yb,Er@$NaYF_4$; PAA-functionalized core-shell UCNPs; PAA-coated green-emitting core-shell nanohybrids

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

Product Information

Description	These poly(acrylic acid) (PAA) modified sodium yttrium fluoride ytterbium erbium at sodium yttrium fluoride ($NaYF_4$:Yb,Er@$NaYF_4$) core-shell nanoparticles feature a green-emitting core protected by an undoped epitaxial fluoride shell. The external surface is coated with a dense layer of poly(acrylic acid) polymer which provides superior water solubility and multiple anchoring points for secondary functionalization. The core-shell architecture is designed to minimize surface quenching and maximize the luminescence efficiency of the erbium activators.
Source	Custom synthesis
Functional Group	PAA
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 -20ºC.