CD BioGlyco
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Product Information

SiO_2 coated UCNPs

Cat. No.: X26-05-ZQ303

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

Synonym: Silica-coated UCNPs; SiO_2-encapsulated upconversion nanoparticles; Silica-shell UCNP nanostructures

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

Product Information

Description	These silicon dioxide (SiO_2) coated upconversion nanoparticles (UCNPs) consist of a rare-earth doped core protected by a uniform silica shell. The composition is designed to enhance the chemical and thermal stability of the fluoride core while facilitating phase transfer to polar solvents. The resulting structure provides a versatile platform for multi-step surface engineering and material integration.
Source	Custom synthesis
Excitation	980 nm
Functional Group	SiO_2
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.