



Product Information

SiO₂@UCNPs

Cat. No.: X26-05-ZQ202

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

Synonym: Silica-coated UCNPs; SiO₂-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 silica at upconversion nanoparticles (SiO ₂ @UCNPs) consist of a luminescent fluoride core surrounded by a uniform and transparent silicon dioxide shell. The composition provides a robust protective barrier that enhances the chemical stability of the core and facilitates further surface functionalization. The physical structure ensures that the optical properties of the lanthanide ions are preserved while providing a silanol-rich interface.
Source	Custom synthesis
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.