CD BioGlyco
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Product Information

Oxide-surface UCNPs

Cat. No.: X26-05-ZQ154

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

Synonym: Oxide-capped upconversion nanoparticles; Surface-oxidized UCNPs; Metal oxide-coated upconversion nanostructures

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

Product Information

Description	These oxide-surface upconversion nanoparticles (UCNPs) are characterized by an inorganic oxide-based surface layer, such as silica or yttria, that encapsulates a fluoride-based luminescent core. The composition is engineered to provide superior chemical and thermal stability compared to pure fluoride crystals in acidic or harsh chemical environments. The resulting structure offers a robust platform that is highly compatible with traditional silanization chemistry for further surface engineering.
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 -20ºC.