

Product Information

Cyclodextrin functionalized UCNPs (CD-UCNPs)

Cat. No.: X26-05-ZQ775

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

Synonym: CD-modified UCNPs; Cyclodextrin-coated upconversion nanoparticles; Macrocycle-functionalized UCNP nanohybrids

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

Product Information

Description	These cyclodextrin functionalized upconverting nanoparticles (CD-UCNPs) feature a surface layer of cyclic oligosaccharides. The cyclodextrin (CD) molecules provide hydrophobic interior cavities that can host various guest molecules, such as dyes or drugs, through non-covalent inclusion complexes. This modification is designed to research supramolecular assembly on inorganic surfaces and the development of guest-host responsive photonic systems.
Source	Custom synthesis
Functional Group	Cyclodextrin
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.