

Product Information

Inulin modified UCNPs (inulin-UCNPs)

Cat. No.: X26-05-ZQ893

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

Synonym: Inulin-functionalized UCNPs; Inulin-coated upconversion nanoparticles; Polysaccharide-modified RE-nanohybrids

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

Product Information

Description	These nanoparticles are surface-modified with inulin, a natural linear fructan polysaccharide consisting of D-fructose units. The structure provides a neutral, hydrophilic carbohydrate corona that ensures high water dispersibility and prevents particle aggregation. The embedded rare-earth core serves as a highly stable, non-blinking optical tracker to monitor the configuration and movement of the inulin chains in chemical systems.
Source	Custom synthesis
Functional Group	Inulin
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.