

Product Information

ATRP surface modified UCNPs

Cat. No.: X26-05-ZQ734

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

Synonym: ATRP-grafted UCNPs; Atom transfer radical polymerization-modified UCNPs; Polymer-brush-functionalized UCNPs

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

Product Information

Description	These atom transfer radical polymerization (ATRP) surface modified upconverting nanoparticles (UCNPs) feature polymer chains grown directly from the nanoparticle surface via an "initiator-from" approach. The atom transfer radical polymerization (ATRP) technique allows for precise control over the polymer chain length, density, and composition. This modification is used to research tailored polymer brushes on inorganic cores and their influence on colloidal and optical properties.
Source	Custom synthesis
Functional Group	ATRP
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.