



## Product Information

### Biotin modified UCNPs

**Cat. No.:** X26-05-ZQ414

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

**Synonym:** Biotinylated upconversion nanoparticles; Biotin-functionalized UCNPs; Vitamin H-modified UCNP nanohybrids

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

#### Product Information

<b>Description</b>	These biotin modified upconverting nanoparticles (UCNPs) are surface-functionalized with biotin molecules to utilize the high-affinity biotin-streptavidin interaction. The surface density of the biotin ligands is controlled to ensure optimal binding efficiency in experimental systems. The inorganic core provides a stable, background-free optical signal for tracking binding events.
<b>Source</b>	Custom synthesis
<b>Functional Group</b>	Biotin
<b>Form</b>	Solid or powder
<b>Purity</b>	≥95%
<b>Impurities</b>	No visible impurities to the naked eye.
<b>Identity</b>	HPLC/MS/NMR
<b>Stability</b>	This product is stable for one year when stored at the recommended temperature in lyophilized powder.
<b>Quality Level</b>	Research grade
<b>Storage</b>	Store at -20°C.