

## Product Information

### Alkyl modified UCNPs

**Cat. No.:** X26-05-ZQ420

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

**Synonym:** Alkyl-functionalized upconversion nanoparticles; Alkane-chain-modified UCNPs; Hydrophobic alkyl-capped UCNPs

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

#### Product Information

|                         |   |
|-------------------------|---|
| <b>Description</b>      | These alkyl modified upconverting nanoparticles (UCNPs) are surface-treated with long-chain hydrocarbon molecules to ensure high dispersibility in non-polar organic solvents. The alkyl coating provides a hydrophobic barrier that stabilizes the particles against aggregation in oils and alkanes. The underlying rare-earth core provides bright upconversion luminescence when excited by a 980 nm laser. |
| <b>Source</b>           | Custom synthesis  |
| <b>Functional Group</b> | Alkyl   |
| <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.   |