

Product Information

Carboxyl functionalized UCNPs

Cat. No.: X26-05-ZQ360

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

Synonym: COOH-modified upconversion nanoparticles; Carboxylated UCNPs; Carboxylic acid-functionalized UCNPs

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

Product Information

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| Description | These upconversion nanoparticles (UCNPs) are surface-modified with carboxylic acid (-COOH) functional groups to ensure excellent water dispersibility. The composition provides a strong negative surface charge that prevents particle aggregation through electrostatic repulsion in aqueous media. The structure serves as a versatile platform for carbodiimide-mediated coupling with amine-containing molecules. |
| Source | Custom synthesis |
| Functional Group | Carboxyl |
| 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. |