

Product Information

Amine-functionalized UCNPs

Cat. No.: X26-05-ZQ157

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

Synonym: NH₂-modified upconversion nanoparticles; Aminated UCNPs; Amine-terminated upconversion nanophosphors

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

Product Information

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| Description | These amine-functionalized upconversion nanoparticles (UCNPs) are rare-earth doped fluoride crystals modified with small-molecule primary amine groups directly on the surface. The structure provides a high positive surface charge that facilitates electrostatic interactions with negatively charged chemical or biological species. This modification ensures that the nanoparticles remain dispersible in aqueous solutions while offering a reactive handle for direct chemical conjugation. |
| Source | Custom synthesis |
| Functional Group | Amine |
| 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. |