

Product Information

NaYF₄:25%Yb@NaYF₄ core-shell UCNPs

Cat. No.: X26-05-ZQ702

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

Synonym: 25%Yb-doped NaYF₄ core-shell; Ytterbium-rich core-shell UCNPs; NaYF₄:25%Yb@NaYF₄ nanostructures

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

Product Information

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| Description | These sodium yttrium fluoride:25%ytterbium@sodium yttrium fluoride (NaYF ₄ :25%Yb@NaYF ₄) core-shell upconverting nanoparticles (UCNPs) are designed with a heavily Yb-doped core and an undoped epitaxial shell. The NaYF ₄ shell layer effectively passivates surface defects, thereby preventing energy migration to surface quenchers and enhancing luminescence intensity. This architecture is specifically used to investigate energy migration and sensitizer-host interactions at the nanoscale. |
| Source | Custom synthesis |
| 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. |