



Product Information

Yb:YLiF₄ UCNMs

Cat. No.: X26-05-ZQ555

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

Synonym: Ytterbium-doped YLiF₄ upconversion materials; Yb:YLiF₄ nanophosphors; Rare-earth doped lithium yttrium fluoride materials

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

Product Information

Description	These ytterbium-doped yttrium lithium fluoride (Yb:YLiF ₄) upconverting nanomaterials (UCNMs) utilize a tetragonal fluoride host to provide specialized optical properties. The crystal lattice is engineered to facilitate efficient energy transfer between the lanthanide ions with minimal thermal loss. These materials are characterized by their high crystallinity and distinct polarized emission characteristics.
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.