



## Product Information

### Morphologically controlled ZnO:Er,Yb UCNPs

**Cat. No.:** X26-05-ZQ826

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

**Synonym:** Shape-controlled Yb,Er:ZnO; Morphological ZnO:Er,Yb nanophosphors; Tailored-morphology Yb/Er-doped ZnO UCNPs

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

#### Product Information

<b>Description</b>	These nanoparticles consist of a zinc oxide (ZnO) host doped with erbium and ytterbium, synthesized with precise control over their geometric shape (e.g., rods or flowers). The structure embeds the rare-earth energy levels within a wide-bandgap semiconducting matrix that possesses piezoelectric properties. This combination allows for the exploration of shape-dependent energy transfer and electro-optical coupling.
<b>Source</b>	Custom synthesis
<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.