

Product Information

UCNPs-PEG-M540

Cat. No.: X26-05-ZQ773

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

Synonym: Merocyanine 540-PEGylated UCNPs; M540-loaded PEG-UCNPs; PEG-M540-functionalized upconversion nanohybrids

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

Product Information

Description	These upconverting nanoparticles-polyethylene glycol-merocyanine 540 (UCNPs-PEG-M540) are hybrid systems where the core is modified with polyethylene glycol (PEG) and the photosensitizer merocyanine 540 (M540). The upconverting nanoparticles (UCNPs) convert near-infrared light into wavelengths that overlap with the absorption spectrum of the M540 dye. This configuration is used for research into light-harvesting systems and the study of energy transfer between fluoride phosphors and organic dye molecules.
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.