CD BioGlyco
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# Product Information

## PDMS-based UCNPs (PDMS-UCNPs)

**Cat. No.:** X26-05-ZQ740

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

**Synonym:** PDMS-encapsulated UCNPs; Poly(dimethylsiloxane)-modified UCNPs; PDMS-matrix upconversion nanostructures

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

### Product Information

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| **Description** | These polydimethylsiloxane (PDMS) based upconverting nanoparticles (UCNPs) (PDMS-UCNPs) are composite materials where upconverting phosphors are embedded within a silicone elastomer matrix. The polydimethylsiloxane (PDMS) provides a flexible, transparent, and chemically inert environment for the UCNP cores. This material is primarily used for research into flexible optical sensors, stretchable photonic devices, and the development of light-emitting elastomers. |
| **Source** | Custom synthesis |
| **Functional Group** | PDMS |
| **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 -20ºC. |