

## Product Information

### Insulin modified UCNPs (UCNPs-insulin)

**Cat. No.:** X26-05-ZQ872

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

**Synonym:** Insulin-functionalized UCNPs; Insulin-conjugated upconversion nanoparticles; Hormone-modified RE-nanophosphors

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

#### Product Information

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| <b>Description</b>      | These materials consist of rare-earth upconverting nanocrystals surface-functionalized with insulin peptide chains. The structural configuration attaches the protein without disrupting its core fold, using the upconverting nanoparticle as a photostable, non-blinking optical tag. This design allows for the precise tracking of the hormone model's physical and chemical migration in laboratory assay environments. |
| <b>Source</b>           | Custom synthesis   |
| <b>Functional Group</b> | Insulin  |
| <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.  |