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Product Information

DOX-loaded mesoporous TiO_2 modified UCNPs (DOX-UCNPs@mHTiO$_2$)

Cat. No.: X26-05-ZQ717

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

Synonym: DOX@mTiO_2-coated UCNPs; Mesoporous titania-modified UCNPs with Doxorubicin; mTiO_2-shell DOX-loaded UCNP nanostructures

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

Product Information

Description	These doxorubicin (DOX) loaded mesoporous titanium dioxide (TiO_2) modified upconverting nanoparticles (DOX-UCNPs@mHTiO$_2$) feature a UCNP core and a mesoporous TiO_2 shell containing doxorubicin (DOX). The titanium dioxide (TiO_2) shell provides both structural support and potential photocatalytic properties, while the UCNP core allows for light conversion. This material is used to investigate the synergy between upconversion luminescence and mesoporous metal-oxide carriers in controlled chemical release research.
Source	Custom synthesis
Functional Group	DOX
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.