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Product Information

FITC-labeled PEG-grafted multi-walled carbon nanotubes

Cat. No.: X26-04-ZQ535

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

Synonym: FITC-PEG-g-MWCNTs; Fluorescent pegylated MWCNTs; FITC-labeled MWCNT-g-PEG

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

Product Information

Description	These MWCNTs are grafted with polyethylene glycol (PEG) chains and labeled with FITC to provide both stability and fluorescence. The PEG grafting ensures that the nanotubes are well-dispersed in aqueous media, while the FITC allows for optical monitoring of the nanotubes' distribution in various experimental settings. This hybrid material combines the structural properties of carbon nanotubes with high-sensitivity fluorescence detection.
Source	Custom synthesis
Functional Group	FITC-PEG
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
Applications	This product can be used for nanomaterial tracking research, the study of nanotube-polymer interactions, and the development of fluorescent carbon-based sensors.
Storage	Store at -20ºC.