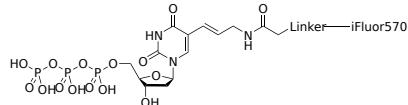


iFluor® 570-dUTP *1 mM in TE Buffer (pH 7.5)*Catalog Number: 17048
Unit Size: 25 nmoles**Product Details**

Storage Conditions	Freeze (< -15 °C), Minimize light exposure
Expiration Date	6 months upon receiving

Chemical Properties

Appearance	Liquid red
Molecular Weight	1435.30
Soluble In	Water
Chemical Structure	

Spectral Properties

Excitation Wavelength	557 nm
Emission Wavelength	570 nm

Applications

iFluor® 570-modified deoxyuridine 5'-triphosphates are widely used for the production of dye-labeled DNA via conventional enzymatic incorporation techniques, including reverse transcription, nick translation, random primed labeling, and PCR. These enzymatic fluorescence labeling methods are commonly employed in both fluorescence *in situ* hybridization (FISH) probes and microarray-based experiments. The iFluor® 570-dUTP conjugate, which emits yellow fluorescence, is compatible with the SpectrumOrange™ filter set (SpectrumOrange™ is a trademark of Vysis). Compared to Alexa Fluor® 546-labeled dNTPs, iFluor® 570 offers a significantly brighter signal, enhanced photostability, and greater resilience to pH fluctuations, maintaining stability even in higher pH conditions (e.g., pH 8-10, commonly used in DNA sequencing).