

**Fluorescein-12-dCTP *1 mM in Tris Buffer
(pH 7.5)***Catalog number: 17035
Unit size: 25 nmoles**Product Details**

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

Chemical Properties

Appearance	Liquid
Molecular Weight	991.69
Soluble In	Water

Spectral Properties

Excitation Wavelength	498 nm
Emission Wavelength	517 nm

Applications

Fluorescein-12-dCTP might be incorporated into a DNA sequence as its natural counterpart dCTP to incorporate a fluorescein tag in a DNA molecule. It can be used for the direct enzymatic labeling of DNA/cDNA, e.g., by PCR or Nick Translation. The resulting fluorescein-labeled DNA/cDNA probes are ideally suited for fluorescence hybridization applications such as FISH or microarray-based gene expression profiling. The linker between fluorescein tag and cytidine has been optimized for the optimal substrate incorporation and labeling efficiency.