

**Fluorescein-12-dGTP *1 mM in Tris Buffer
(pH 7.5)***Catalog number: 17037
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	1030.72
Soluble In	Water

Spectral Properties

Excitation Wavelength	498 nm
Emission Wavelength	517 nm

Applications

Fluorescein-12-dGTP might be incorporated into a DNA sequence as its natural counterpart dGTP to incorporate a fluorescein tag in a DNA molecule. It can be used for the direct enzymatic labeling of DNA/cDNA, e.g. by nick translation, random priming, polymerase chain reaction (PCR), and 3'-end labeling. 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 guanosine has been optimized for the optimal substrate incorporation and labeling efficiency. The labeled products may be detected directly via fluorescence or indirectly by combining with anti-fluorescein HRP or AP conjugates.