# Cyanine 5-dUTP

Cyanine 5-dUTP can replace TTP in reactions in which it serves as a substrate for *E. coli* DNA polymerase (holoenzyme and Klenow fragment), T4 and Taq DNA polymerases, reverse transcriptase (from AMV and M-MuLV) and terminal transferase. Fluorescently labeled probes can be prepared with this fluorescent nucleotide by a variety of methods including nick translation, cDNA labeling and 3'-end labeling. Probes generated by these methods are suitable for use for the identification of specific sequences by *in situ* hybridization procedures on fixed cells and tissues by direct fluorescence detection. Cyanine 5-dUTP can also be used for multicolor fluorescence labeling.

**Citations:** 9 View Online »

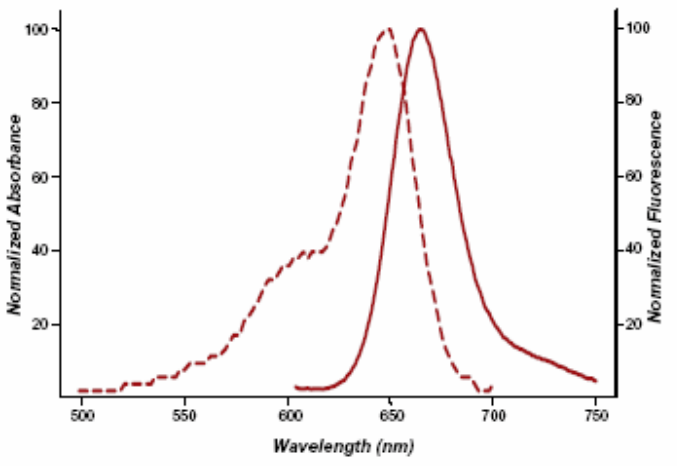
## Ordering Information

Order Online »

| | |
|---|---|
| **ENZ-42502** | 25nmol |

## Manuals, SDS & CofA

View Online »


Normalized Absorbance
Normalized Fluorescence
100
80
60
40
20
500
550
600
650
700
750
Wavelength (nm)

## Handling & Storage

| | |
|---|---|
| **Use/Stability** | As indicated on product label or CoA when stored as recommended. Stable for at least one year after receipt when stored as recommended. |
| **Handling** | Protect from light. Avoid freeze/thaw cycles. |
| **Long Term Storage** | -20°C |
| **Shipping** | Dry Ice |

## Regulatory Status

RUO - Research Use Only

## Product Details

| | |
|---|---|
| **Alternative Name** | Cyanine 5-deoxyuridine-5’-triphosphate |
| **Appearance** | Blue liquid. |
| **Concentration** | 1mM |
| **Emission Maximum** | 662 nm |
| **Excitation Maximum** | 650 nm |
| **Extinction Coefficient** | 250,000 M-1 cm-1 (650 nm in TE [10 mM TRIS, pH 8.0, 1 mM EDTA]) |
| **Formulation** | Liquid. Solution in water. |
| **Purity** | ≥93% (HPLC) |
| **Purity Detail** | Purified by ion-exchange chromatography. |
| **Technical Info / Product Notes** | Several of Enzo’s products and product applications are covered by US and foreign patents and patents pending. |

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