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 »

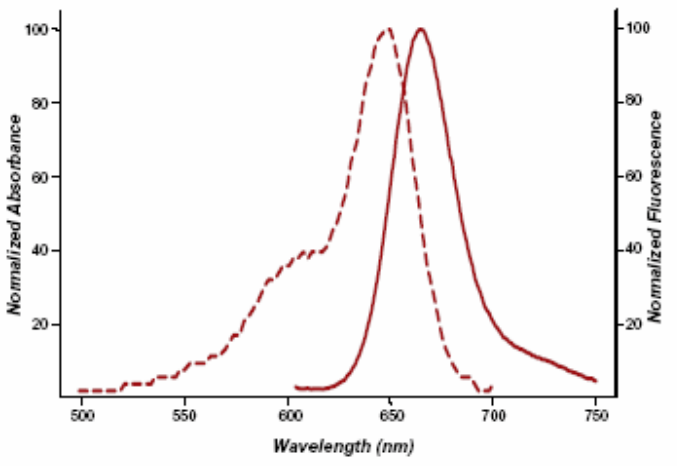
Ordering Information

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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