Allylamine-dUTP

Allylamine-2'-deoxyuridine-5'-triphosphate can replace TTP in reactions where it serves as a substrate for *E. coli* DNA polymerase 1 (holoenzyme and Klenow fragment), terminal deoxynucloetide transferase, T4 and Taq DNA polymerases, and reverse transcriptases (from AMV and M-MuLV). Allylamine-dUTP is incorporated into DNA by a variety of labeling reactions including nick translation, random primed DNA synthesis and 3' end labeling reactions. Allylamine-labeled DNA can be efficiently conjugated to the active ester form of signal generating moieties such as fluorescent dyes, biotin and other haptens to produce labeled probes for hybridization/detection assays. The efficient incorporation of Allylamine-dUTP, in contrast to many dye-labeled nucleotides, provides for greater incorporation of signaling moieties and stronger signals.

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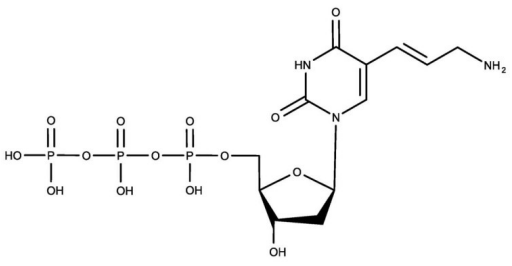
ENZ-42861	2.5µmol

Manuals, SDS & CofA View Online »


O
HN
NH2
O
N
HO
P
O
OH
O
O
O
OH

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Handling	Avoid freeze/thaw cycles.
Long Term Storage	-20°C
Shipping	Dry Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Allylamino-2'-deoxyuridine-5'-triphosphate
Appearance	Clear, colorless solution, free of solid particulates.
Concentration	50mM
Extinction Coefficient	8,100 M-1 cm-1 (290 nm, water)
Formula	$C_{12}H_{20}N_3O_{14}P_3$
Formulation	Liquid. Solution in water.
MW	523.2 (free acid)
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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