Bio-16-dUTP

Bio-16-dUTP (Biotin-16-2'-deoxyuridine-5'-triphosphate) 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. Bio-16-dUTP can be used to produce biotinylated DNA probes in a variety of labeling reactions including nick translation, random prime labeling, cDNA labeling and 3'-end labeling. The resulting biotin-labeled probe can be used in a variety of hybridization applications incuding Southern blots, Northern blots, or dot blots. The probes can also be used for *in situ* hybridization procedures on fixed cells and tissues. The biotinylated probes have been shown to hybridize to homologous nucleic acid at the same rate and to the same extent as non-biotinylated probes. The hybridized biotinylated DNA probes can be detected by their interaction with biotin-binding proteins, such as avidin, streptavidin or antibodies coupled to fluorescent dyes or color-producing enzymes.

This labeled dUTP can be used with the Nick Translation DNA Labeling System 2.0 (Prod. No. ENZ-GEN111).

Citations: 4

View Online »

Ordering Information

Order Online »

ENZ-42811

50nmol

Manuals, SDS & CofA

View Online »



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 Biotin-16-2'-deoxyuridine-5'-triphosphate

Appearance Clear, colorless liquid.

Concentration 1mM

Extinction Coefficient 10,700 M-1 cm-1 (240 nm, pH 7.0)

Formulation Liquid. Solution in water.

MW 947.7 (free acid)

Purity ≥93% (HPLC)

Purity Detail Contains <5% Bio-16-dUDP.

Quantity Sufficient for approximately 50 reactions, following the recommended protocol of Prod.

No. ENZ-GEN111.

Technical Info / Product

Notes

The Bio-16 dUTP linker that physically connects Biotin to the nucleotide is longer than that of Bio-11 dUTP. The accessibility of the biotin moiety is influenced by the linker length allowing more favorable interaction with biotin-binding proteins.

Several of Enzo's products and product applications are covered by US and foreign

patents and patents pending.
ENZO LIFE SCIENCES, European Sales Office Belgium, The Netherlands



ENZO LIFE SCIENCES,
INC.
Phone: 800.942.0430
infousa@enzolifesciences.com

European Sales Office ENZO LIFE SCIENCES (ELS) AG Phone: +41 61 926 8989 infoeu@enzolifesciences.com Belgium, The Netherlands
& Luxembourg
Phone: +32 3 466 0420
infobe@enzolifesciences.com

France
Phone: +33 472 440 655
infofr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
infode@enzolifesciences.com

UK & Ireland
Phone (UK customers):
0845 601 1488
Phone: +44 1392 825900
infouk@enzolifesciences.com