Bio-7-dATP

Bio-7-dATP (Biotin-7-2'-deoxyadenosine-5'-triphosphate) can replace dATP 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-7-dATP can be used to produce biotinylated DNA probes in a variety of labelling reactions including nick translation, random prime labelling, cDNA labelling and 3'-end labelling. 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.

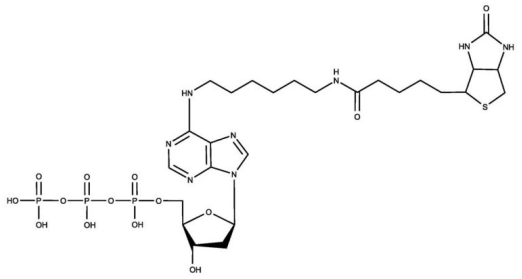
Ordering Information

Order Online »

ENZ-42819	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-7-2'-deoxyadenosine-5'-triphosphate
Appearance	Clear, colorless liquid.
Concentration	1mM
Extinction Coefficient	17,000 M-1 cm-1 (265 nm, pH 7.0)
Formula	$C_{26}H_{43}N_7O_{14}P_3S$
Formulation	Liquid. Solution in water.
MW	816.7 (free acid)
Purity	≥93% (HPLC)
Purity Detail	Contains <5% Bio-7-dADP.
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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