Bio-17-ATP

Bio-17-ATP (Biotin-17-adenosine-5’-triphosphate) can replace ATP for in vitro transcription reaction catalyzed by T3, T7 or SP6 RNA polymerases. The biotin-labeled RNA transcripts produced by these reactions are suitable for a wide range of applications such as nucleic acid hybridization, sequencing, and genome analysis. The transcription reaction produces multiple RNA copies of the DNA template(s) during a short incubation period. RNA probes offer higher target specificity and greater sensitivity than the corresponding DNA-DNA hybrids. The single-stranded RNA probes offer slectivity unavailable with double-stranded DNA probes, because they are strand-specific. Furthermore, RNA probes hybridize much more efficiently to target molecules than DNA probes because there is no self-hybridization. The biotin-labeled hybridized probes can be detected by a reporter molecule linked to streptavidin, avidin, or anit-biotin antibody. Such a complex can be detected directly, e.g. by excitation of a fluorophore conjugated to streptavidin, or indirectly, e.g. using an enzyme conjugate that can produce an insoluble colored precipitate.

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Ordering Information

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ENZ-42817	250nmol

Manuals, SDS & CofA

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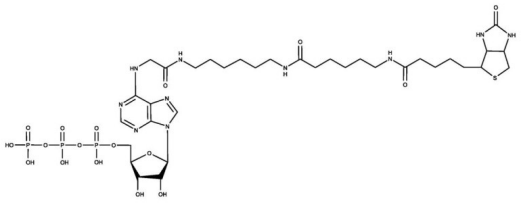

Handling & Storage

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-17-adenosine-5’-triphosphate
Appearance	Clear, colorless liquid.
Concentration	10mM
Extinction Coefficient	18,000 M-1 cm-1 (267 nm, pH 7.0)
Formula	$C_{34}H_{57}N_{10}O_{17}P_3S$
Formulation	Liquid. Solution in water.
MW	1002.8 (free acid)
Purity	≥93% (HPLC)
Purity Detail	Contains <5% Bio-17-ADP.
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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