

**Biotin-11-dATP**Catalog number: 17014  
Unit size: 25 nmoles**Product Details**

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Storage Conditions	Freeze (<-15 °C), Minimize light exposure
Expiration Date	6 months upon receiving

**Chemical Properties**

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Appearance	Liquid
Molecular Weight	882.71
Soluble In	Water

**Applications**

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The biotin-modified deoxyadenosine 5'-triphosphates are widely used for a variety of non-radioactive DNA labeling reactions including nick translation, random prime labeling, cDNA labeling and 3'-end labeling. 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 avidin and streptavidin. Biotin-11-dATP can be enzymatically incorporated into DNA via nick-translation, random priming, 3'-end terminal labeling or in the process of PCR. The number '11' is the number of carbon atoms in the backbone of the linker between dATP and biotin. The longer the linker is, the more effective interaction of biotin with avidin occurs. On the other hand, the shorter the linker is, the more effective incorporation of dATP into DNA. It is suggested the length of linker '11' is optimal for most applications. Biotin-11-dATP is used to produce biotinylated DNA probes in a variety of hybridization applications including Southern blots, Northern blots, dot blots, fixed cells, and tissues. It is chemically equivalent to NEL540001EA of PerkinElmer (PE).