

## 5-EdUTP, 1 mM in TE buffer

Catalog Number	Packaging Size
C432	500 $\mu$ L

Storage upon receipt:  $-20^{\circ}\text{C}$

### I. Product Description

5-Ethynyl-dUTP (5-EdUTP) (cat. no. C432) is supplied as a 1 mM solution in TE buffer.

5-EdUTP can be enzymatically incorporated into DNA with Reverse Transcriptases, Taq DNA Polymerase, phi29 DNA Polymerase, Klenow Fragment, *exo-*, Klenow Fragment, and DNA Polymerase I.

The resulting ethynyl-functionalized DNA can subsequently be processed via Cu(I)-catalyzed click chemistry that offers the choice:

- to introduce a Biotin group (via Azides of Biotin) for subsequent purification tasks
- to introduce fluorescent group (via Azides of fluorescent dyes) for subsequent microscopic imaging
- to crosslink the DNA to Azide-functionalized biomolecules e.g. proteins

### II. Specifications

Concentration: 1 mM solution in TE buffer

Storage: Store at  $-20^{\circ}\text{C}$

Molecular Formula:  $\text{C}_{11}\text{H}_{15}\text{N}_2\text{O}_{14}\text{P}_3$  (free acid)

Molecular Weight: 492.16 (free acid)

### III. General Characteristics

$\lambda_{\text{max}}=288 \text{ nm}$ ,  $\epsilon =12.0 \times 10^3 \text{ M}^{-1}\text{cm}^{-1}$  (pH 7.5).

