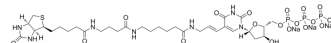


## Biotin-16-dUTP trisodium

Cat. No.:	HY-D1022A
Molecular Formula:	C <sub>32</sub> H <sub>49</sub> N <sub>7</sub> Na <sub>3</sub> O <sub>18</sub> P <sub>3</sub> S
Molecular Weight:	1013.72
Target:	DNA Stain
Pathway:	Cell Cycle/DNA Damage
Storage:	Solution, -20°C, protect from light, 2 years



### BIOLOGICAL ACTIVITY

<b>Description</b>	Biotin-16- dUTP (Biotin-16-deoxyuridine-5'-triphosphate) trisodium can be used to replace its natural counterpart dTTP by enzymatically incorporating it into DNA/cDNA. Biotin-16- dUTP trisodium can be used to produce biotinylated DNA probes in a variety of assay applications <sup>[1][2]</sup> .
<b>In Vitro</b>	Biotin-16- dUTP trisodium can be used for in situ detection of DNA fragments by nick end labelling (TUNEL assay) for the study of apoptosis <sup>[1]</sup> . Biotin-16-dUTP trisodium can be used for replication foci labelling in permeabilised HeLa cell nuclei and detected by fluorescent streptavidin <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. C Charriaut-Marlangue, et al. A cautionary note on the use of the TUNEL stain to determine apoptosis. *Neuroreport*. 1995 Dec 29;7(1):61-4.
- [2]. T Krude, et al. Chromatin assembly factor 1 (CAF-1) colocalizes with replication foci in HeLa cell nuclei. *Exp Cell Res*. 1995 Oct;220(2):304-11.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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