

FT-751011

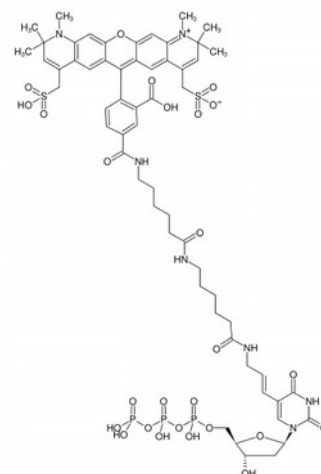


AF594-XX-dUTP

Incorporation into DNA/cDNA by PCR with Taq polymerase or Nick Translation with DNase I/ DNA Polymerase I

Products Description

Name :	AF594-XX-dUTP 5-(3-Aminoallyl)-2'-deoxyuridine-5'-triphosphate, labeled with AF594, Triethylammonium salt
Catalog Number :	FP-751011, 10 µl (1mM) FP-751012, 5x10 µl (1mM)
Formula:	C ₅₉ H ₇₄ N ₇ O ₂₆ P ₃ S ₂ (free acid)
MW:	1454.30 g/mol (free acid)
Purity :	>95% (HPLC)
λ_{Exc./Em.}	590/617 nm
ε	92000 cm ⁻¹ M ⁻¹



Storage: -20°C . Stable for at least one year. Protect from light and moisture

Description

FluoProbes® AF594-XX-dUTP is recommended for direct enzymatic labeling of DNA/cDNA e.g. by PCR and Nick Translation. It is incorporated as substitute for its natural counterpart dTTP. The resulting Dye-labeled DNA/cDNA probes are ideally suited for fluorescence hybridization applications such as FISH or microarray-based gene expression profiling. Optimal substrate properties and thus labeling efficiency is ensured by an optimized linker attached to the C5 position of uridine. AF594 is a hydrophilic dye with excellent photostability compared to fluorescein.

Recommended FluoProbes® AF594-XX-dUTP/dTTP ratio for PCR and Nick Translation: 30-50% FluoProbes® AF594-XX-dUTP/ 70-50% dTTP

Please note: Protect the Dye-labeled dUTP from exposure to light and carry out experimental procedures in low light conditions. The optimal final concentration of the Dye-labeled dUTP may very depending on the application and assay conditions. For optimal product yields and high incorporation rates an individual optimization of the Dye-labeled-dUTP/dTTP ratio is recommended.

Directions for Use

Instructions may be found in the literature.

References

- **Albanese A, et al.** HIV-1 Pre-Integration Complexes Selectively Target Decondensed Chromatin in the Nuclear Periphery. *PLoS ONE* 3(6): e2413 (2008)
- **Grewal S. et al.**, Characterisation of *Thinopyrum bessarabicum* chromosomes through genome-wide introgressions into wheat, *Theoretical and Applied Genetics*, Volume 131, Issue 2, pp 389–406 (2018)
- **Guillaud-Bataille M. et al.**, Two populations of double minute chromosomes harbor distinct amplicons, the MYC locus at 8q24.2 and a 0.43-Mb region at 14q24.1, in the SW613-S human carcinoma cell line, *Cytogenet Genome Res*;124:1–11 (2009)

Related products

- Fast Plus EvaGreen qPCR Master Mix, [GV9900](#)
- dNTP Set 1 (dATP, dGTP, dCTP, dTTP), [968641](#)
- UptiTherm DNA Polymerase, [S53921](#)
- AMV reverse transcriptase, [N14051](#)
- ddCTP-Li4, [637520](#)
- dCTP-Biotin, [BS8661](#)

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>
Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : FluoProbes® / Interchim; Hotline : +33(0)4 70 03 73 06

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