
Product Data Sheet

Product Name: Cy5-UTP, 10mM Sodium Solution

Cat. No.: GB20007

Chemical Properties

Cas. No.

Chemical Name O=S(C1=CC2=C(N(CCCCC(NC/C=C/C3=CN([C@H]4[C@H](O)[C@H](O)[C@@H](COP(OP(O)(OP(O)(O)=O)=O)(O)=O)O4)C(NC3=O)=O)=O)/C(C2(C)C)=C/C=C/C=C/C(C5(C)C)=[N+](CC)C6=C5C=C(S([O-])(=O)=O)C=C6)C=C1)(O)=O

Formula C₄₅H₅₈N₅O₂₂P₃S₂ M.Wt 1178.01

Solubility A solution in water Storage Store at -20°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

Cyanine5-UTP (Cy5-UTP) can replace UTP as the substrate of T7 RNA polymerase, and generate orange fluorescently labeled mRNA through in vitro transcription, excitation/emission (nm): 650/665nm[1]. Probes generated using Cy5-UTP as a substrate are suitable for multicolor fluorescence analysis, especially dual-color expression arrays combined with Cy5-UTP [2].

References:

[1]. Custer TC, et al. In vitro labeling strategies for in cellulo fluorescence microscopy of single ribonucleoprotein machines. Protein Sci. 2017 Jul;26(7):1363-1379.

[2]. Guerra (2006) Analysis of oligonucleotide microarrays by 3' end labeling using fluorescent nucleotides and terminal transferase. Biotechniques 41 (1):53.

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

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