

Product Data Sheet

Product Name: Cyanine 3-dCTP

Cat. No.: GB20026

Chemical Properties

Cas. No.

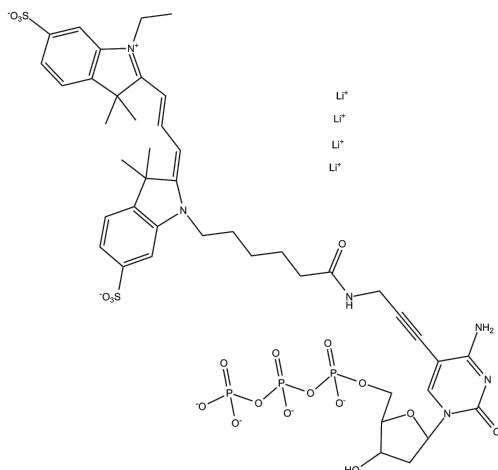
Formula $C_{43}H_{54}N_6O_{20}P_3S_2$ (free acid) M.Wt 1131.9 (free acid)

Solubility Storage Store at -20°C or below

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

Cy3-dCTP can be used for PCR by Taq polymerase, Nick Translation by DNase I/DNA polymerase I, cDNA labeling and 3' end labeling for direct enzymatic labeling of DNA/cDNA. Cy3-dCTP can replace CTP in reactions as a substrate for T4 and Taq DNA polymerases, E. coli DNA polymerase (holoenzyme and Klenow fragment), reverse transcriptase (from AMV and M-MuLV) and terminal transferase. Synthetic dye-labeled DNA/cDNA probes can be used to identify specific sequences by in situ hybridization, microarray or blotting techniques. Cy3-dCTP can also be used for multicolor fluorescent labeling. An optimized linker attached to the C5 position of uridine ensures optimized substrate properties and labeling efficiency. Recommended Cy3-dCTP/dCTP ratio for PCR and Nick Translation: 30-50% Cy3-dCTP/50% dCTP.

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

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