

Product Data Sheet

Product Name: 3'-Fluorothymidine-5'-triphosphate tetrasodium

Cat. No.: GC81657

Chemical Properties

Cas. No. 1443116-39-9

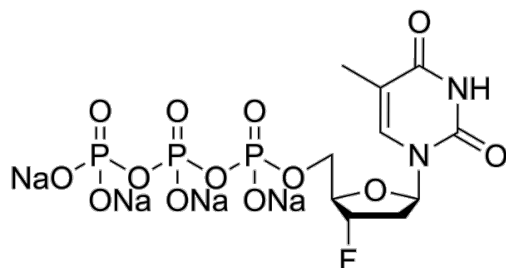
Formula $C_{10}H_{12}FN_2Na_4O_{13}P_3$ M.Wt 572.09

Solubility H_2O : 50 mg/mL (87.40 mM; Need ultrasonic) Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

3'-Fluorothymidine-5'-triphosphate tetrasodium (3'-FdTTP tetrasodium) is a dTTP analog. 3'-Fluorothymidine-5'-triphosphate tetrasodium inhibits the T4 DNA polymerases competitively with dTTP. 3'-Fluorothymidine-5'-triphosphate tetrasodium inhibits DNA synthesis by T4 wild-type, L98 and CB121 DNA polymerase [1] [2].

References:

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

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- [1]. Schroeder C, et al. Inhibitor studies on phage T4 wild-type and mutant DNA polymerase. IV. The substrate analog 3'-fluorothymidine 5'-triphosphate. Z Allg Mikrobiol. 1980;20(10):657-62.
- [2]. Schroeder C, et al. Inhibitor studies of phage T4 wild-type and mutant DNA polymerases V. A summary of kinetic and inhibition data. Zeitschrift für allgemeine Mikrobiologie, 1981, 21(2): 141-155.

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