

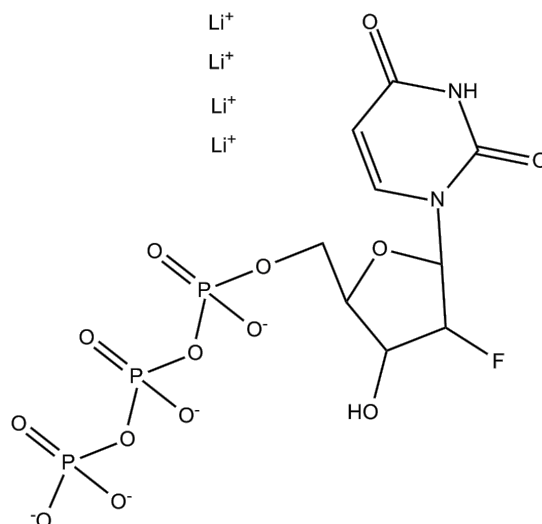
## Certificate of Analysis

Product Name: 2'-F-dUTP  
Cat. No.: GB20169  
Batch No.: 1  
Chemical Name:

### PHYSICAL AND CHEMICAL PROPERTIES

Cas. No.: 66840-02-6  
Molecular Formula:  $C_9H_{14}N_2O_{14}P_3F$  (free acid)  
Molecular Weight: 486.1 (free acid)  
Storage: -20°C or below, Avoid repeated freeze-thaw cycles.

Chemical Structure:



### ANALYTICAL DATA

Appearance: A solution in Water  
Concentration: 101mM  
 $^1\text{H}$ NMR: Conforms  
 $^{31}\text{P}$ NMR: Conforms  
Purity(by HPLC): 98.9%  
 $\lambda_{\text{max}}$ : 262nm  
PH(22-25°C): 7.6  
Conclusion: The product has been tested and complies with the given specifications.

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

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