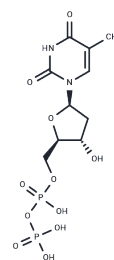


## Thymidine 5'-diphosphate

## Chemical Properties

CAS No. :	491-97-4
Formula:	C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>11</sub> P <sub>2</sub>
Molecular Weight:	402.19
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Thymidine 5'-diphosphate (dTDP), a crucial product of pyrimidine synthesis in organisms, is synthesized through the thymidylate kinase (TMPK)-catalyzed phosphorylation of 5'-thymidine monophosphate (dTMP), requiring ATP and Mg <sup>2+</sup> . It is further converted to thymidine 5'-triphosphate (dTTP) via TMPK catalysis. The activity of TMPK can be monitored by assessing the levels of dTDP [1] [2].
Targets(IC50)	Others,Endogenous Metabolite

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4864 mL	12.4319 mL	24.8639 mL
5 mM	0.4973 mL	2.4864 mL	4.9728 mL
10 mM	0.2486 mL	1.2432 mL	2.4864 mL
50 mM	0.0497 mL	0.2486 mL	0.4973 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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