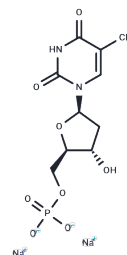


## Thymidine-5'-monophosphate disodium salt

## Chemical Properties

CAS No. :	33430-62-5
Formula:	C <sub>10</sub> H <sub>15</sub> N <sub>2</sub> Na <sub>2</sub> O <sub>9</sub> P
Molecular Weight:	384.19
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'-monophosphate disodium salt (TMP DISODIUM SALT) is found in DNA. In mammalian cells, thymidine deprivation induces chromosome aberrations such as chromatid breaks, chromatid interchanges, and chromosome fragmentation.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 3.85 mg/mL (10.02 mM), Sonication is recommended. H <sub>2</sub> O: 247.5 mg/mL (644.21 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6029 mL	13.0144 mL	26.0288 mL
5 mM	0.5206 mL	2.6029 mL	5.2058 mL
10 mM	0.2603 mL	1.3014 mL	2.6029 mL
50 mM	0.0521 mL	0.2603 mL	0.5206 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.

## Reference

Gribaudo G, Riera L, Caposio P, Maley F, Landolfo S: Human cytomegalovirus requires cellular deoxycytidylate deaminase for replication in quiescent cells. J Gen Virol. 2003 Jun;84(Pt 6):1437-41.

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