

## Fludarabine triphosphate trisodium

## Chemical Properties

CAS No. :

Formula: C<sub>10</sub>H<sub>12</sub>FN<sub>5</sub>Na<sub>3</sub>O<sub>13</sub>P<sub>3</sub>

Molecular Weight: 591.12

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	Fludarabine triphosphate (F-ara-ATP) trisodium, the principal metabolite of Fludarabine, is a potent, noncompetitive, and specific inhibitor of DNA primase with an IC <sub>50</sub> value of 2.3 μM and a K <sub>i</sub> of 6.1 μM. It obstructs DNA synthesis by hindering DNA primase and primer RNA formation, while also inhibiting ribonucleotide reductase and DNA polymerase activities, effectively inducing cellular apoptosis [1] [2].
Targets(IC50)	Apoptosis,Nucleoside Antimetabolite/Analog,Others,DNA/RNA Synthesis,Drug Metabolite

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6917 mL	8.4585 mL	16.917 mL
5 mM	0.3383 mL	1.6917 mL	3.3834 mL
10 mM	0.1692 mL	0.8459 mL	1.6917 mL
50 mM	0.0338 mL	0.1692 mL	0.3383 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.

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