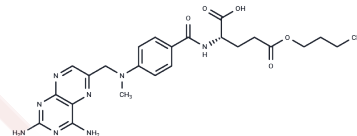


## 5-Monobutyl methotrexate

## Chemical Properties

CAS No. :	66147-31-7
Formula:	C <sub>24</sub> H <sub>30</sub> N <sub>8</sub> O <sub>5</sub>
Molecular Weight:	510.55
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	5-Monobutyl methotrexate is an antineoplastic antimetabolite with immunosuppressant properties. It is a TETRAHYDROFOLATE DEHYDROGENASE inhibitor and prevents the formation of tetrahydrofolate, necessary for synthesis of thymidylate, an essential component of DNA.
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9587 mL	9.7934 mL	19.5867 mL
5 mM	0.3917 mL	1.9587 mL	3.9173 mL
10 mM	0.1959 mL	0.9793 mL	1.9587 mL
50 mM	0.0392 mL	0.1959 mL	0.3917 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

Rosowsky A, Abelson HT, Beardsley GP, Ensminger WD, Kufe DW, Steele G, Modest EJ. Pharmacologic studies on the dibutyl and gamma-monobutyl esters of methotrexate in the rhesus monkey. *Cancer Chemother Pharmacol.* 1982 Dec;10(1):55-61. PubMed PMID: 7160046.

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