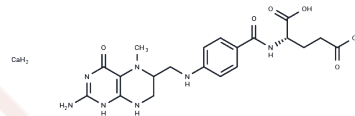


## 5-Methyltetrahydrofolic acid

## Chemical Properties

CAS No. :	134-35-0
Formula:	C <sub>20</sub> H <sub>25</sub> N <sub>7</sub> O <sub>6</sub>
Molecular Weight:	459.46
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-Methyltetrahydrofolic acid (5-Methyl THF) is a biologically active form of folic acid and a methylated derivative of tetrahydrofolate, serving as the predominant natural dietary folate and the principal form of folate found in plasma and cerebrospinal fluid.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 245 mg/mL (533.23 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.35 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1765 mL	10.8823 mL	21.7647 mL
5 mM	0.4353 mL	2.1765 mL	4.3529 mL
10 mM	0.2176 mL	1.0882 mL	2.1765 mL
50 mM	0.0435 mL	0.2176 mL	0.4353 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

Wright AJ, et al. Comparison of (6 S)-5-methyltetrahydrofolic acid v. folic acid as the reference folate in longer-term human dietary intervention studies assessing the relative bioavailability of natural food folates: comparative changes in folate status following a 16-week placebo-controlled study in healthy adults. Br J Nutr. 2010 Mar;103 (5):724-9.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481