Data Sheet (Cat.No.T40717)

TargetMol

6-Methyluracil

Chemical Properties

CAS No. : 626-48-2

Formula: C5H6N2O2

Molecular Weight: 126.11

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	6-Methyluracil (pseudothymine) is a uracil derivative and a pyrimidine base analog involved in nucleoside-related metabolism. It has been reported to exhibit potential radioprotective activity, although its underlying biological mechanisms remain to be further investigated.
Targets(IC50)	Endogenous Metabolite
In vivo	6-Methyluracil (50 mg/kg; a single i.p.) produces a pronounced radioprotective effect in BALB and SHK mice[2].

Solubility Information

Solubility	DMSO: 40 mg/mL (317.18 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.9296 mL	39.6479 mL	79.2959 mL
5 mM	1.5859 mL	7.9296 mL	15.8592 mL
10 mM	0.793 mL	3.9648 mL	7.9296 mL
50 mM	0.1586 mL	0.793 mL	1.5859 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

Cromby CH, et, al. 6-Methyluracil excretion in 2-methylacetoacetyl-CoA thiolase deficiency and in two children with an unexplained recurrent ketoacidaemia. J Inherit Metab Dis. 1994;17(1):81-4.
Taran IP, et, al. [The antiradiation action of 6-methyluracil]. Radiobiologiia. Mar-Apr 1993;33(2):285-90.

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