Data Sheet (Cat.No.TNU0123)

TargetMol

5-Methoxyuridine

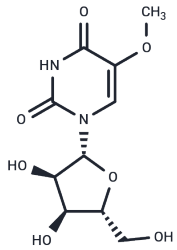
Chemical Properties

CAS No. : 35542-01-9

Formula: C10H14N2O7

Molecular Weight: 274.23

Storage: Store at low temperature
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-Methoxyuridine (Mo5U) is a purine nucleoside analog with a broad spectrum of antitumor activity, targeting malignant tumors of the inert lymphatic system and inducing apoptosis.5-Methoxyuridine's anticancer mechanism is dependent on the inhibition of DNA synthesis.5-Methoxyuridine is a purine nucleoside analog with a broad spectrum of antitumor activity, targeting malignant tumors of the inert lymphatic system and inducing apoptosis.
Targets(IC50)	Apoptosis,Nucleoside Antimetabolite/Analog

Solubility Information

Solubility	DMSO: 60 mg/mL (218.79 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 (7.29 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6466 mL	18.2329 mL	36.4657 mL
5 mM	0.7293 mL	3.6466 mL	7.2931 mL
10 mM	0.3647 mL	1.8233 mL	3.6466 mL
50 mM	0.0729 mL	0.3647 mL	0.7293 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

Robak T, et al. Purine nucleoside analogs in the treatment of rarer chronic lymphoid leukemias. Curr Pharm Des. 2012;18(23):3373-88.

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