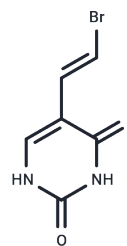


(E)-5-(2-Bromovinyl)uracil

Chemical Properties

CAS No. :	69304-49-0
Formula:	C ₆ H ₅ BrN ₂ O ₂
Molecular Weight:	217.02
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	(E)-5-(2-Bromovinyl)uracil (BVU) is a pyrimidine base and an inactive metabolite of the antiviral agents sorivudine and (E)-5-(2-bromovinyl)-2'-deoxyuridine (BVDU), which can be regenerated to BVDU in vivo. BVU irreversibly inactivates dihydropyrimidine dehydrogenase (DPD) in an NADPH-dependent manner, enhancing the efficacy of the chemotherapeutic agent and DPD substrate 5-fluorouracil in a P388 murine leukemia model when administered at a dose of 200 µmol/kg, thereby increasing survival time.
Targets(IC50)	Others,DNA/RNA Synthesis

Solubility Information

Solubility	DMF: 60 mg/mL (276.47 mM),Sonication is recommended. PBS (pH 7.2): 8 mg/mL (36.86 mM),Sonication is recommended. DMSO: 53 mg/mL (244.22 mM),Sonication is recommended. Ethanol: 0.8 mg/mL (3.69 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6079 mL	23.0394 mL	46.0787 mL
5 mM	0.9216 mL	4.6079 mL	9.2157 mL
10 mM	0.4608 mL	2.3039 mL	4.6079 mL
50 mM	0.0922 mL	0.4608 mL	0.9216 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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