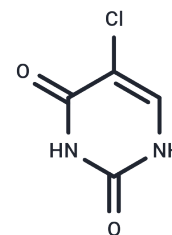


5-Chlorouracil

Chemical Properties

CAS No. :	1820-81-1
Formula:	C ₄ H ₃ ClN ₂ O ₂
Molecular Weight:	146.53
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-Chlorouracil is a chlorinated derivative of the pyrimidine nucleoside base uracil .
Targets(IC50)	Others
In vivo	In vivo, it is converted into chlorodeoxyuridine, which is mutagenic and genotoxic. Uracil is chlorinated at the 5 position in a cell-free myeloperoxidase, peroxide, and chloride system in which hypochlorous acid is formed. 5-Chlorouracil has been found in human neutrophils stimulated with phorbol 12-myristate 13-acetate in vitro and in inflammatory human exudate isolated from sites of superficial infection. Levels of 5-chlorouracil are increased in exudate isolated from the site of inflammation in a rat model of carrageenan-induced inflammation and in patient-derived human atherosclerotic aortic tissue.

Solubility Information

Solubility	PBS (pH 7.2): 60 mg/mL (409.47 mM),Sonication is recommended. DMF: 8 mg/mL (54.6 mM),Sonication is recommended. DMSO: 0.8 mg/mL (5.46 mM),Sonication is recommended. Ethanol: 53 mg/mL (361.7 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.8245 mL	34.1227 mL	68.2454 mL
5 mM	1.3649 mL	6.8245 mL	13.6491 mL
10 mM	0.6825 mL	3.4123 mL	6.8245 mL
50 mM	0.1365 mL	0.6825 mL	1.3649 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

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