

Product Data Sheet

Product Name: 5-Chlorouracil

Cat. No.: GC45357

Chemical Properties

Cas. No. 1820-81-1

SMILES O=C1NC(NC=C1Cl)=O

Formula C₄H₃ClN₂O₂

M.Wt 146.5

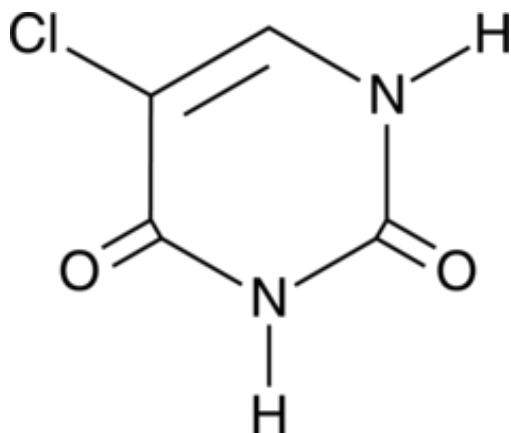
Solubility DMF: 8 mg/ml, DMSO: 0.8 mg/ml, Ethanol: 53 mg/ml, PBS (pH 7.2): 60 mg/ml

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

5-Chlorouracil is a chlorinated derivative of the pyrimidine nucleoside base uracil. In vivo, it is

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converted into chlorodeoxyuridine, which is mutagenic and genotoxic.¹ Uracil is chlorinated at the 5 position in a cell-free myeloperoxidase, peroxide, and chloride system in which hypochlorous acid is formed.² 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.^{3,4}

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