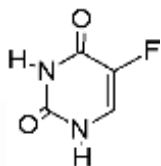


PRODUCT: 5-FluorouracilALTERNATE NAME: 5-Fluoro-2,4-(1*H*,3*H*)-pyrimidinedione; 5-FU

CATALOG #: B1519-1G, 5G

AMOUNT: 1 g, 5 g

STRUCTURE:

MOLECULAR FORMULA: C₄H₃FN₂O₂

MOLECULAR WEIGHT: 130.08

CAS NUMBER: 51-21-8

APPEARANCE: White solid

SOLUBILITY: DMSO (>10 mg/ml)

PURITY: ≥98% by HPLC

STORAGE: Store at -20°C. Protect from air and light.

DESCRIPTION: 5-Fluorouracil (5-FU) is an anticancer agent that gets metabolized to form fluorodeoxyuridine monophosphate (FdUMP), fluorodeoxyuridine triphosphate (FdUTP) and fluorouridine (FUTP). FdUMP inhibits thymidylate synthase, causing a reduction in dTMP synthesis. FUTP and FdUTP are misincorporated into RNA and DNA respectively.

REFERENCES: Ghoshal, K., and Jacob, S.T. (1997). *Biochem. Pharmacol.* **53**, 1569-1575.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:Capecitabine (**1741**)5-Fluorouracil (**B1519**)Gemcitabine Hydrochloride (**1759**)DiscoveryPak™ Gemcitabine-THU Set (**K841**)Tetrahydrouridine (**1671**)EZSolution™ Tetrahydrouridine (**2355**)Uridine Triacetate (**B1516**)

USAGE: *FOR RESEARCH CH USE ONLY! Not to be used in humans*