



Catalog # 10-1276

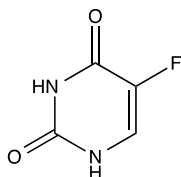
5-Fluorouracil

CAS# 51-21-8

5-Fluoro-1H,3H-pyrimidine-2,4-dione

5-FU

Lot # FBA2165



5-Fluorouracil (5-FU) is a clinically useful anticancer agent that acts *via* irreversible inhibition of thymidylate synthase. The active metabolites of 5-FU are 5-Fluorodeoxyuridylate (5-FdUMP), 5-Fluorodeoxyuridine triphosphate (5-FdUTP) and 5-Fluorouridine triphosphate (5-FUTP). The primary cytotoxic effect of 5-FU is believed to be inhibition of thymidylate synthase by 5-FdUMP. Secondary effects include incorporation of 5-FdUTP into DNA resulting in DNA strand breaks and incorporation of 5-FUTP into RNA causing abnormal RNA processing.¹

- 1) Schlisky (1998), *Biochemical and Clinical Pharmacology of 5-Fluorouracil*; Oncology **12** 13

PHYSICAL DATA

Molecular Weight:	130.08
Molecular Formula:	C ₄ H ₃ FN ₂ O ₂
Purity:	>98%
	NMR: (Conforms)
Solubility:	Soluble in DMSO (>25 mg/ml).
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Store solutions at -20°C for up to 1 month.

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