



LKT Laboratories, Inc.

5-Fluorouracil

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Product Information

Product ID F4480

CAS No. 51-21-8

Chemical Name 5-Fluoro-2,4(1H,3H)-pyrimidinedione

Synonym Fluorouracil, 5-FU, 2,4-dioxo-5-fluoropyrimidine

Formula C₄H₃FN₂O₂

Formula Wt. 130.08

Melting Point 282-283 °C(dec.)

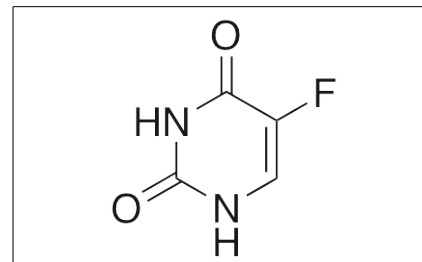
Purity ≥98%

Solubility Slightly soluble in water (12 mg/mL).

Store Temp Ambient

Ship Temp Ambient

Description 5-Fluorouracil (5-FU) is an antimetabolite pyrimidine analog that exhibits anticancer chemotherapeutic activity; it inhibits thymidylate synthase, preventing thymidine synthesis. 5-FU is clinically used to treat various cancers and is often co-administered with other chemotherapeutics to decrease its peripheral cytotoxicity.



Bulk quantities available upon request

Product ID	Size
F4480	1 g
F4480	5 g
F4480	25 g

References Papanastasopoulos P, Stebbing J. Molecular basis of 5-fluorouracil-related toxicity: lessons from clinical practice. *Anticancer Res.* 2014 Apr;34(4):1531-5. PMID: 24692679.

Longley DB, Harkin DP, Johnston PG. 5-fluorouracil: mechanisms of action and clinical strategies. *Nat Rev Cancer.* 2003 May;3(5):330-8. PMID: 12724731.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.