

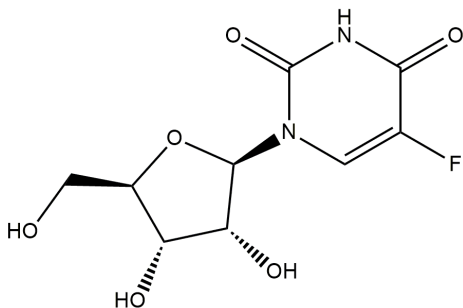
5-Fluorouridine

05/21

ALTERNATE NAMES: 1-[(2R,3R,4S,5R)-3,4-dihydroxy-5-(hydroxymethyl)oxolan-2-yl]-5-fluoropyrimidine-2,4-dione; 5-Fur; 1-(β-D-Ribofuranosyl)-5-fluorouracil; 1-[(2R,3R,4S,5R)-3,4-Dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl]-5-fluoropyrimidine-2,4(1H,3H)-dione; Furd

CATALOG #: B3149-100 100 mg
B3149-500 500 mg

STRUCTURE:



MOLECULAR FORMULA: C₉H₁₁FN₂O₆

MOLECULAR WEIGHT: 262.19

CAS NUMBER: 316-46-1

APPEARANCE: White to off-white powder

PURITY: ≥ 98%

SOLUBILITY: ~50 mg/ml in water

DESCRIPTION: 5-Fluorouridine is a ribonucleotide metabolite of 5-Fluorouracil. It is cytotoxic and inhibits rRNA synthesis in human colon carcinoma cells. It exhibits cytotoxic effect on lymphoma cells with an IC₅₀ of 2 nM.

STORAGE TEMPERATURE: -20 °C

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

REFERENCES:

1. Glazer, R. I., Lloyd, L.S. Association of cell lethality with incorporation of 5-fluorouracil and 5-fluorouridine into nuclear RNA in human colon carcinoma cells in culture. *Mol Pharmacol* 21(2):468-73 (1982).
2. Kanzawa, F., Hoshi, A., Kuretani, K. Differences between 5-fluoro-2'-deoxyuridine and 5-fluorouridine in their cytotoxic effect on growth of murine lymphoma L5178Y cells in in vivo and in vitro systems. *Eur J Cancer* 16(8):1087-92 (1980).
3. Ward, T., Hartzer, M., Blumenkranz, M., et al. A comparison of 5-fluorouridine and 5-fluorouracil in an experimental model for the treatment of vitreoretinal scarring. *Curr Eye Res* 12(5):397-401 (1993).

RELATED PRODUCTS:

Indole-3-carbinol (Cat. No. B2839)
 Sulforaphane (Cat. No. B2801)
 5-Fluorouracil (Cat. No. B1519)
 Doxifluridine (Cat. No. B2650)
 AZD-2461 (Cat. No. B3103)

DISCLAIMER: *FOR RESEARCH USE ONLY! Not to be used on humans.*