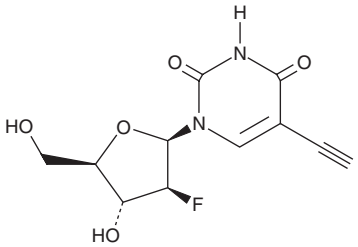
PRODUCT INFORMATION

(2′S)-2′-Deoxy-2′-fluoro-5-ethynyluridine

Item No. 46464

CAS Registry No.: 95740-26-4
Formal Name: 1-(2-deoxy-2-fluoro-β-D-arabinofuranosyl)-5-ethynyl-2,4(1H,3H)-pyrimidinedione
Synonym: F-ara-EdU
MF: $C_{11}H_{11}FN_2O_5$
FW: 270.2
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

(2′S)-2′-Deoxy-2′-fluoro-5-ethynyluridine (F-ara-EdU) is supplied as a solid. A stock solution may be made by dissolving the F-ara-EdU in the solvent of choice, which should be purged with an inert gas. F-ara-EdU is soluble (≥10 mg/ml) in DMSO and slightly soluble (0.1-1 mg/ml) in ethanol.

Description

F-ara-EdU is a DNA labeling agent.[1] It is incorporated into DNA during active DNA synthesis and can be detected using an azide-functionalized fluorophore. F-ara-EdU also has antiviral activity against herpes simplex virus 1 (HSV-1) and HSV-2 *in vitro* (EC_{50}s = 1.9 and 3 µM, respectively) and inhibits the growth of L1210 and P815 leukemia cells (IC_{50}s = 23.5 and 20.4 µM, respectively).[2]

References

1. Neef, A.B. and Luedtke, N.W. Dynamic metabolic labeling of DNA in vivo with arabinosyl nucleosides. *Proc. Natl. Acad. Sci. U.S.A.* **108(51),** 20404-20409 (2011).
2. Perlman, M.E., Watanabe, K.A., Schinazi, R.F., *et al.* Nucleosides. 133. Synthesis of 5-alkenyl-1-(2-deoxy-2-fluoro-β-D-arabinofuranosyl)cytosines and related pyrimidine nucleosides as potential antiviral agents. *J. Med. Chem.* **28(6),** 741-748 (1985).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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