

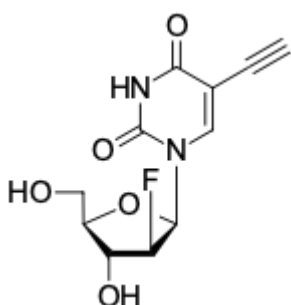
## F-ara-EdU (2'-Deoxy-2'-fluoro-5-ethynyluridine)

<http://www.lumiprobe.com/p/f-ara-edu>

F-ara-EdU (2'-deoxy-2'-fluoro-5-ethynyluridine) is a synthetic analog of thymidine used to study *de novo* DNA synthesis and cell proliferation. It is a less cytotoxic alternative for [BrdU \(5-Bromo-2'-deoxyuridine\)](#) and [EdU \(5-Ethynyl-2'-deoxyuridine\)](#).

F-ara-EdU incorporates into replicating DNA during the S-phase of the cell cycle instead of natural thymidine. Metabolic incorporation of F-ara-EdU into DNA can be detected by copper-catalyzed click reaction with [fluorescent](#) or [biotin-labeled](#) azides.

In contrast to EdU, F-ara-EdU causes little or no cellular arrest or DNA synthesis inhibition. Therefore, F-ara-EdU is ideally suited for pulse-chase experiments aimed at birth-dating DNA *in vivo* and long-term cell survival estimation.



**Structure of F-ara-EdU ((2'S)-2'-Deoxy-2'-fluoro-5-ethynyluridine)**

### General properties

Appearance: off-white powder

Molecular weight: 270.22

CAS number: 95740-26-4

Molecular formula:  $C_{11}H_{11}FN_2O_5$

Solubility: in water, DMSO, DMF

Quality control: NMR  $^1H$  and HPLC-MS (95+%)

Storage conditions: 24 months after receipt at  $-20^{\circ}C$  in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

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