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EdU (5-Ethynyl-2'-deoxyuridine)

http://www.lumiprobe.com/p/edu-ethynyl-deoxyuridine

EdU (5-ethynyl-2'-deoxyuridine) is a nucleoside, an analog of thymidine, carrying an ethynyl group. This nucleoside behaves as a substrate for cellular DNA replication machinery. After EdU incorporation, DNA containing ethynyl groups can be ligated by click chemistry reaction with various <u>dye azides</u>. Fluorescent DNA can be detected with microscopy, or cells can be sorted with FACS.

EdU (ethynyl deoxyuridine) structure

General properties

Appearance: light beige to light brown solid

Molecular weight: 252.22 CAS number: 61135-33-9 Molecular formula: $C_{11}H_{12}N_2O_5$ Solubility: in water, DMSO

Quality control: NMR ¹H, HPLC-MS (95%)

Storage conditions: Storage: 24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3

weeks.