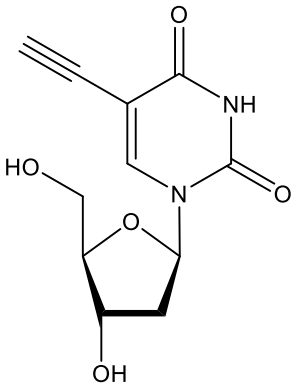
Catalog # 10-2794

5-Ethynyl-2'-deoxyuridine

61135-33-9

5-EdU; 2'-Deoxy-5-ethynyluridine

Lot # FBA11017



A novel agent for fast and sensitive detection of DNA synthesis *in vivo*[1]. 5-EdU is incorporated into proliferating cells followed by detection with a fluorescent azide using click ligation[1]. In contrast to the use of BrdU, the new method does not require sample fixation or DNA denaturation. May be used for studying cell proliferation in the central nervous system and may be combined with BrdU staining in a novel protocol allowing for double labeling of DNA synthesis[2].

1) Salic and Mitchison (2008), *A chemical method for fast and sensitive detection of DNA synthesis in vivo*; Proc. Natl. Acad. Sci. USA, **105** 2415
2) Zeng *et al*. (2010), *Evaluation of 5-ethynyl-2'-deoxyuridine staining as a sensitive and reliable method for studying cell proliferation in the adult nervous system*; Brain Res., **1319C** 21

PHYSICAL DATA

Molecular Weight:	252.23
Molecular Formula:	$C_{11}H_{12}N_2O_5$
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 10 mg/ml)
Physical Description:	White to off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 2 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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