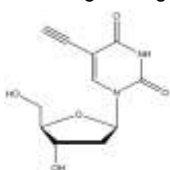


PRODUCT: 5-Ethynyl-2'-deoxyuridine**ALTERNATE NAME:** 2'-Deoxy-5-ethynyluridine; 5-EdU**CATALOG #:** 9565-10, 50**AMOUNT:** 10 mg, 50 mg**STRUCTURE:****MOLECULAR FORMULA:** C₁₁H₁₂N₂O₅**MOLECULAR WEIGHT:** 252.22**CAS NUMBER:** 61135-33-9**APPEARANCE:** White to off-white solid**SOLUBILITY:** DMSO (~10 mg/ml)**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20°C. Protect from air and light

DESCRIPTION: A novel agent for fast and sensitive detection of DNA synthesis *in vivo*. 5-EdU is incorporated into proliferating cells followed by detection with a fluorescent azide using click ligation. 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. EdU incorporation is rapidly becoming the gold standard method for DNA labeling.

REFERENCES: Salic, A., and Mitchson, T.J. (2008). *Proc. Natl. Acad. Sci. USA* **105**, 2415-2420.

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

RELATED PRODUCTS:Anti-BrdU antibody (**Cat. No. 3618**)ApoBrdU DNA Fragmentation Assay Kit (**Cat. No. K401**)ApoBrdU Red DNA Fragmentation Assay Kit (**Cat. No. K404**)ApoBrdU-IHC DNA Fragmentation Assay Kit (**Cat. No. K403**)ApoDirect DNA Fragmentation Assay Kit (**Cat. No. K402**)**USAGE:** *FOR RESEARCH CH USE ONLY! Not to be used in humans*