Click-IT EdU Cell Proliferation Detection Kit [AF-674 Azide]

EdU (5-Ethynyl-2’-deoxyuridine) is a thymidine nucleoside analog that can be incorporated into replicating DNA molecules in place of thymidine (T) during cell proliferation. The DNA replication activity can be rapidly detected by the specific reaction between EdU and Azide fluorescent dyes, which allows for a quick and accurate assessment of cell proliferation capacity.

Compared with the BrdU detection method, the EdU detection method is faster, more sensitive, and more accurate. EdU is highly similar to T, and the EdU dye is only 1/500 the size of the BrdU antibody, which makes it easier to diffuse within cells. There is no need for DNA denaturation (such as acid hydrolysis, heat denaturation, or enzymatic digestion), effectively avoiding sample damage. Moreover, there is no need for antigen-antibody reactions, enabling a more accurate reflection of DNA replication activity at the cellular and tissue levels. This kit is suitable for the detection of cell proliferation in vitro. For adherent cells, fluorescence detection is recommended and can be performed using fluorescence microscopes, confocal microscopes, or high-content screening instruments. For suspension cells, after incubation with EdU, smears can be prepared. The staining detection process starting from fixation is the same as that for adherent cells.

Catalog No.	520204
Size	100 Assays
Product Category	Cell Detection
Kit Components	1. Reagent A: EdU Solution (50mM) 20uL 2. Reagent B: Click Reaction Buffer 1ml 3. Reagent C: CuSO4 Catalyst Solution 100uL 4. Reagent D: AF-674 Azide Dye Solution 30uL 5. Reagent E: Click Additive Buffer 100mg 6.Reagent F: Hoechst 33342 [100x] 100uL
Storage/Stability	-20°C/1 year
Shipping	Gel Packs