CREATIVE BIOMART®
Assay Kit

Protein Synthesis Assay Kit

Product Information

Cat.No. Kit-2011

Size

96 wells

Description

The Protein Synthesis Assay Kit is a non-radioactive method for measuring protein synthesis that employs the cell-permeable, alkyne-containing, puromycin analog O-Propargyl-puromycin (OPP). Upon application to cells, the OPP probe incorporates into the C-terminus of translating polypeptide chains, thereby stopping translation. These truncated C-terminal alkyne-labeled proteins are then subsequently detected via copper-catalyzed click chemistry using 5 FAM-Azide. The reagents provided in the kit are sufficient to run 20 samples when using flow cytometry or 100 samples when using a 96-well plate format.

Storage

-20°C

Kit Components

Cell-Based Assay Wash Buffer: 2 vials/100 ml; Room TemperatureCell-Based Assay TBS (10X): 1 vial/10 ml; Room TemperatureO-Propargyl-Puromycin Stock Solution: 1 vial/25 µl; -20°CCopper Sulfate Solution: 1 vial/100 µl; -20°CCell-Based Assay Fixative: 1 vial/10 ml; Room TemperatureAscorbic Acid Solution: 1 vial/2 ml; -20°CCell-Based Assay 5 FAM-Azide Stock Solution: 1 vial/25 µl; -20°CCell-Based Assay Cycloheximide: 1 vial/50 µl; -20°C

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