

FITC-11-dUTP

Cat. No: E-CK-A120D

Size: 25 µL/ 250 µL

Cat.	Products	Size (1nmol/µL)		Storage
E-CK-A120D	FITC-11-dUTP	25 µL	250 µL	-20 °C, shading light

Storage

Store in the dark at -20 °C for 12 months. Avoid repeated freezing and thawing. It is not recommended to vortex.

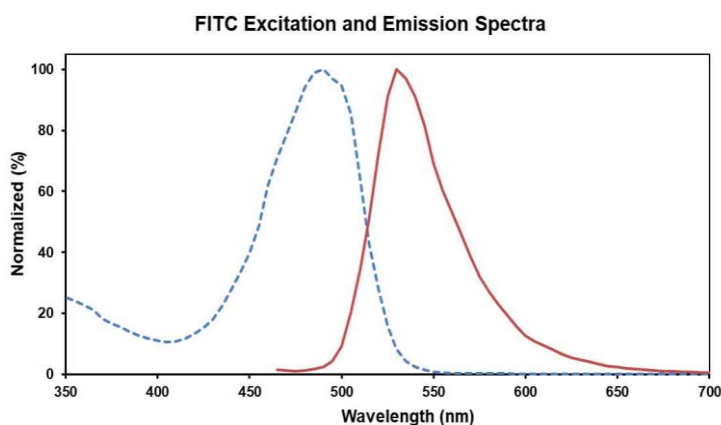
Introduction

FITC-11-dUTP is a modified triphosphate that can be linked to the 3'-OH terminal of DNA by terminal transferase. This triphosphate is linked between fluorescein and the nitrogenous base by an 11-atom chain, which effectively prevents static quenching of fluorescence and improves the efficiency of nucleotide binding to the 3'-OH terminal of DNA.

Detection Principle

Chromosome DNA breakage is an important marker event in cell apoptosis. A series of DNA 3'-OH terminus is produced by DNA double-strand breaks in apoptotic cells or whenever there is a gap in one strand. The fluorescein labeled dUTP can be linked to the 3'-OH terminus of the broken DNA under the action of Terminal Deoxynucleotidyl Transferase (TdT). Fluorescence of dUTP conjugate can be detected by flow cytometry or fluorescence microscope.

Detection



Ex:490 nm; Em:530 nm; Laser:488 nm; Filter:530/30

Cautions

1. This kit is for reseach use only.
2. For your safety and health, please wear the lab coat and disposable gloves before the experiments.

For Research Use Only