

Elab Fluor® 555-11-dUTP

Cat. No: E-CK-A125D

Size: 25 µL/ 250 µL

| Cat. | Products | Size (1nmol/µL) | | Storage |
|------------|-------------------------|-----------------|--------|-----------------------|
| E-CK-A125D | Elab Fluor® 555-11-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.

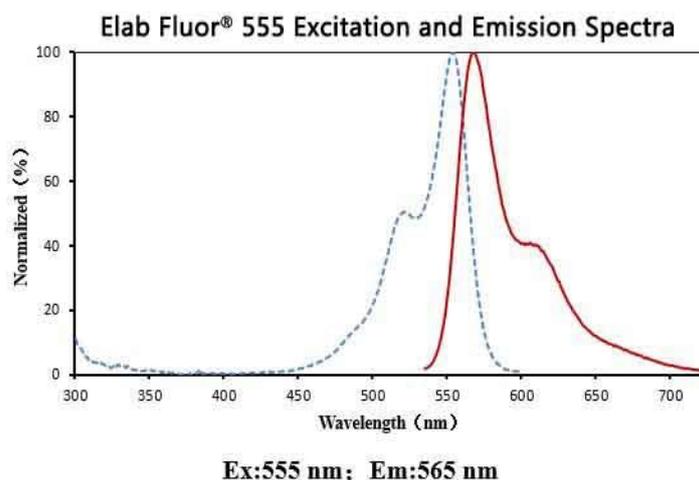
Introduction

Elab Fluor® 555-11-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



Cautions

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

For Research Use Only