

proteon
Forefront of Biotechnology

Datasheet, Version 2/2016

Catalog # 2615

Synonyms Casp-3 fluorescent

substrate

Type Recombinant

Source E. coli

Species Human

Tag His6

Form Liquid

Purity >95% by SDS PAGE

Shipping Ice pack



Introduction

Substrate protein for quantitative determination and monitoring of Caspase-3 specific activity based on fluorescent energy transfer (FRET). Suitable for high-throughput applications.

Description

The 60 kDa FRET substrate protein is composed by two fluorescent proteins linked with Caspase-3 recognition sequence DEVD. The substrate is specifically cleaved to fluorescent monomers, which results in quantitative decrease of fluorescent intensity at 580-650 nm (emission). The excitation range of the substrate is 490-515 nm.

Application

Protease activity control and monitoring. High-throughput screening of Caspase-3 protease variants. This substrate is manufactured in certified laboratory environment and could be used in GMP certified downstream processes.

Purification method

Affinity chromatography, size exclusion chromatography, desalting.

Formulation

0.5 mg/ml, 10mM Tris pH7,5, 50mM KCl

Specificity

Caspase-3 protease recognition sequence.

Storage

-80C, aliquot to avoid repeated freezing and thawing.

Analyte specific reagent (ASR) manufactured under ISO 13485.

Country of origin: Czech Republic

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