CREATIVE BIOMART®
Assay Kit

Caspase-4 Inhibitor Drug Screening Kit (Fluorometric)

Product Information

Cat

Kit-2332

Cat.No. Kit-2332

Product Overview

Caspases have been shown to play a crucial role in apoptosis induced by various deleterious and physiologic stimuli. Inhibition of caspases can delay apoptosis, implicating a potential role in drug screening efforts. The Caspase-4 Inhibitor Drug Screening Kit provides an effective means for screening caspase inhibitors using fluorometric methods. The assay utilizes synthetic peptide substrate LEVD-AFC (AFC, 7-amino-4-trifluoromethyl coumarin). Active caspase-4 cleaves the synthetic substrate to release free AFC which can then be quantified by fluorometry. Compounds to be screened can directly be added to the reaction and the level of inhibition of caspase-4 activity can be determined by comparison of the fluorescence intensity in samples with and without the testing inhibitors.

Applications

Effective means for screening caspase inhibitors using fluorometric methods.

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

Kit Components

2X Reaction Buffer; Caspase Substrate LEVD-AFC (1 mM); DTT (1 M); Active Caspase-4 (Lyophilized); Caspase Inhibitor, Z-VAD-FMK (2 mM)

Target Species

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Mammalian

Detection method Fluorescence (Ex/Em 400/505 nm)

Features & Benefits

Simple one-step procedure; takes only 1-1.5 hours;
Fast and convenient;
Inhibition of caspase-4 activity can be determined by comparison of the fluorescence intensity in samples with and without the testing inhibitors.

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