

# Caspase-5 Inhibitor Drug Screening Kit (Fluorometric)

**Cat. No.** Kit-2333    **Lot. No.** (See product label)

## SPECIFICATION

### 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-5 Inhibitor Drug Screening Kit provides an effective means for screening caspase inhibitors using fluorometric methods. The assay utilizes synthetic peptide substrate WEHD-AFC (AFC, 7-amino-4-trifluoromethyl coumarin). Active caspase-5 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-5 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 WEHD-AFC (1 mM); DTT (1 M); Active Caspase-5 (Lyophilized); Caspase Inhibitor, Z-VAD-FMK (2 mM)

### Target Species

Mammalian

### Detection method

Fluorescence (Ex/Em 400/505 nm)

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**Features & Benefits**

Simple one-step procedure; takes only 1-1.5 hours;

Fast and convenient;

Inhibition of caspase-5 activity can be determined by comparison of the fluorescence intensity in samples with and without the testing inhibitors.

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