Caspase-9 Inhibitor Drug Screening Kit (Fluorometric)

Cat. No. Kit-2331 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Caspases have been shown to play a crucial role in apoptosis induced by various deleteriousand physiologic stimuli. Inhibition of caspases can delay apoptosis, implicating a potentialrole in drug screening efforts. The Caspase-9 Inhibitor Drug Screening Kit provides aneffective means for screening caspase inhibitors using fluorometric methods. The assayutilizes synthetic peptide substrate LEHD-AFC (AFC, 7-amino-4-trifluoromethyl coumarin).Active caspase-9 cleaves the synthetic substrate to release free AFC which can then bequantified by fluorometry. Compounds to be screened can directly be added to the reactionand the level of inhibition of caspase-9 activity can be determined by comparison of thefluorescence intensity in samples with and without the testing inhibitors. The assay is simple,straightforward, and can be performed directly in microtiter plates. Each kit contains 100 unitsof active caspase-9, sufficient for screening 100 caspase inhibitor samples. Assay conditionshave been optimized to obtain the maximal activity.
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 LEHD-AFC (1 mM); DTT (1 M); Active Caspase-9 (Lyophilized); Caspase Inhibitor, Z-VAD-FMK (2 mM)

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Target Species	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-9 activity can be determined by comparison of the fluorescence intensity in samples with and without the testing inhibitors.

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