RinVisinn

rev. 05/11

Active Recombinant Caspase Set II

CATALOG #:

K231-4-25

LOT #:

PACKAGE CONTENT:

Description	Amount	Cap Color	Part Number
Recombinant Caspase-1	25 units	Yellow	1081-25
Recombinant Caspase-2	25 units	Orange	1082-25
Recombinant Caspase-9	25 units	Blue	1089-25
Recombinant Caspase-10	25 units	Amber	1090A-25

UNIT DEFINITION:

One unit of the recombinant human caspase-1, -2, -9, and -10 is the enzyme activity that cleaves 1 nmol of the caspase substrate YVAD-pNA, VDVAD-pNA, LEHD-pNA, and IETDpNA, respectively, per hour at 37°C in a reaction solution containing 50 mM Hepes, pH 7.2, 50 mM NaCl, 0.1 % Chaps, 10 mM EDTA, 5 % Glycerol, and 10 mM DTT.

FORM:	Lyophilized powder	
RECONSTITUTION:	Reconstituted to 0.1 - 1 unit per µl in PBS.	
STORAGE:	Store at –70°C. Stable for 1 year at –70°C	

DESCRIPTION:

Caspases are known to play an important role in apoptosis. Caspases exist in cells as inactive pro-enzymes. Most of the pro-caspases are matured by proteolysis to yield large and small subunits. Active caspases are heterotetramers, each of which consists of two large and two small subunits.

APPLICATIONS AND USAGE:

Recombinant human caspases were expressed in E. coli and purified. Active recombinant caspases are useful for screen of caspase inhibitors, study enzyme kinetics and regulation, determine target substrate specificity, and as a positive control in caspase activity assays. We recommend using 1 unit per assay for analyzing caspase activity.

For a complete caspase activity assay protocol, please refer to BioVision's Caspase Activity Assay Kits.

FOR RESEARCH USE ONLY! Not to be used in humans.

RELATED PRODUCTS:

Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit •
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- ٠ FractionPREP Fractionation System

Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- **DNA Damage Quantification Kit**

Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits • Signal Transduction

- cAMP & cGMP Assay Kits ٠
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit •

Molecular Biology & Reporter Assays

- ٠ siRNA Vectors
- Cloning Insert Quick Screening Kit •
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit

β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

Growth Factors and Cytokines Monoclonal and Polyclonal Antibodies