rev. 08/04 For research use only

# **Recombinant Human Procaspase-7**

**CATALOG #**: 1087P-5

**AMOUNT:** 5  $\mu$ g

**PURITY:** >90% by SDS-PAGE

FORM: Lyophilized powder

**RECONSTITUTION:** Reconstitute to 0.1 μg/μl in PBS containing 15% glycerol.

## STORAGE:

Store at  $-70^{\circ}$ C. After initial reconstitution, aliquot product into individual tubes and immediately refreeze at  $-70^{\circ}$ C. AVOID FREEZE/THAW CYCLES!

#### BACKGROUND DESCRIPTION:

Caspase-7 is a member of the caspase family of cysteine proteases. Caspase-7 exists in cells as an inactive proenzyme. Proteolytic processing of this inactive proenzyme generates the large and small subunits which, when assembled as a tetramer (a pair of heterodimers), form the active caspase. Cascades of caspase activation have been shown to be key signal-transducing events in apoptosis. Procaspase-7, like other procaspases with short N-terminal prodomains, is considered to be a downstream or "effector" enzyme.

The recombinant Procaspase-7 (1087P-5) is produced by expression of a human cDNA in *E. coli* (Genebank accession # U40281) and further purified by multiple chromatography.

#### APPLICATIONS:

Investigating mechanisms of the proteolytic processing and activation of procaspase-7

**NOTE:** For research purpose only! Not to be used in human.

#### **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
- Apoptotic Cell Isolation Kit

## Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- 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
- 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 Kit
- Total Cholesterol Quantification Kit

## Molecular Biology & Reporter Assays

- 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

Quality Antibodies for Apoptosis and Signal Transduction