

Active Recombinant Human Caspase-10/a

CATALOG #: 1090A-25 25 units
1090A-100 100 units

LOT #: _____

UNIT DEFINATION:

One unit of the recombinant caspase-10/a is the enzyme activity that cleaves 1 nmol of the caspase substrate IETD-pNA (pNA: p-nitroalanine) 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: Reconstitute to 1 unit per µl in PBS containing 15% glycerol.

SPECIFIC ACTIVITY: 8000 units/mg

PURITY: ≥90% by SDS-PAGE

STORAGE CONDITIONS:

The lyophilized caspase-10 is stable for 1 year at -70°C. Following reconstitution in PBS+15% glycerol, the enzyme should be aliquoted and immediately stored at -70°C. Avoid multiple freeze/thaw cycles as activity might decrease.

DESCRIPTION:

Caspase-10/a (also known as Mch4) is a member of the caspase-family of cysteine proteases. Similar to other caspases, caspase-10 also exists in cells as an inactive proenzyme. During apoptosis procaspase-10 is processed at aspartate residues to form active caspase-10 which consists of two large (18 kDa) and two small (11 kDa) subunits in a heterotetramer form.

The recombinant active human caspase-10 was expressed in *E. coli*. The active caspase-10 is routinely tested at BioVision for its ability to enzymatically cleave these two substrates Ac-IETD-pNA (Cat. #1063-200) or Ac-IETD-AFC (1062-200).

APPLICATIONS AND USAGE:

Active caspase10/a is useful in studying enzyme regulation, determining target substrates, screening caspase inhibitors, or as a positive control in caspase activity assays. We recommend using 1 unit/assay for analyzing caspase activity.

For a complete caspase assay protocol, please refer to BioVision's Caspase Fluorometric or Colorimetric Assay Kits.

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

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For research use only

RELATED PRODUCTS:

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- 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

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- Senescence Detection Kit
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- 20 Minutes Gel Staining/Destaining Kit
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