10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Caspase-3, human recombinant protein

Caspase-3
Catalog # PBV10012r

Specification

Caspase-3, human recombinant protein - Product info

Primary Accession	P42574
Calculated MW	large (17 kD) and small (11 kD) subunits KDa

Caspase-3, human recombinant protein - Additional Info

Gene ID	836
Gene Symbol	CASP3

Other Names
Caspase-3, CASP-3, Apopain, Cysteine protease CPP32, CPP-32, Protein Yama, SREBP cleavage activity 1, SCA-1

Gene Source	Human
Source	E.coli
Assay&Purity	SDS-PAGE;
Assay2&Purity2	HPLC;
Recombinant	Yes

Target/Specificity
Caspase-3

Application Notes
Reconstitute in PBS containing 15% glycerol.

Format
Semi-Dry

Storage
-70°C; Semi-Dry

Caspase-3, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Caspase-3, human recombinant protein - Images

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Caspase-3, human recombinant protein - Background

Caspase-3 (also know as CPP32, Yama and apopain) is a major member of the caspase-family of cysteine proteases. Caspase-3 exists in cells as an inactive 32 kDa proenzyme. During apoptosis procaspase-3 is processed at aspartate residues by self-proteolysis and/or cleavage by upstream caspases, such as caspase-6 (Mch2), caspase-8 (Flice) and grazyme B. The processed form of caspase-3 consists of large (17 kD) and small (11 kD) subunits which associate to form the active enzyme. The active caspase-3 has been shown involving in the proteolysis of several important molecules, such as poly (ADP-ribose) polymerase (PARP), the sterol regulatory element binding proteins (SREBPs), focal adhesion kinase (FAK), and others. The recombinant active human caspase-3 expressed in E. coli spontaneously undergoes autoprocessing to yield subunits characteristic of the native enzyme (Full length gene Accession No. NP_004337) . The active caspase-3 preferentially cleaves caspase-3 substrates (e.g., DEVD-AFC or DEVD-pNA) and is routinely tested at BioVision for its ability to enzymatically cleave these two substrates Ac-DEVD-pNA or Ac-DEVD-AFC

Caspase-3, human recombinant protein - References

Fernandes-Alnemri T.,et al.J. Biol. Chem. 269:30761-30764(1994).
Tewari M.,et al.Cell 81:801-809(1995).
Pelletier M.,et al.Biochem. Biophys. Res. Commun. 316:93-99(2004).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.