

Caspase-1, human recombinant protein**Caspase-1****Catalog # PBV10010r****Specification**

Caspase-1, human recombinant protein - Product info

Primary Accession

[P29466](#)

Calculated MW

large (20 kD) and small (10 kD) subunits
kDa**Caspase-1, human recombinant protein - Additional Info**

Gene ID

834

Gene Symbol

CASP1**Other Names**

Caspase-1, CASP-1, Interleukin-1 beta convertase, IL-1BC, IL-1 beta-converting enzyme, p45

Gene Source

Human

Source

E.coli

Assay&Purity

SDS-PAGE;

Assay2&Purity2

HPLC;

Recombinant

Yes**Target/Specificity**

Caspase-1

Application Notes

Reconstitute to 1 unit per µl in PBS containing 15% glycerol.

Format

Semi-Dry powder

Storage

-70°C; Lyophilized powder

Caspase-1, 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 Cytometry](#)
- [Cell Culture](#)

Caspase-1, human recombinant protein - Images

Caspase-1, human recombinant protein - Background

Caspase-1 (also known as ICE) is a prototypical member of the caspase-family of cysteine proteases. Caspase-1 exists in cells as an inactive 45 kDa proenzyme. The pro-enzyme is matured by proteolysis to yield large (20 kD) and small (10 kD) subunits. The active caspase-1 is a heterotetramer consisting of two large and two small subunits. To date the regulatory mechanism of caspase-1 activation and the role of caspase-1 in apoptosis are poorly understood. In THP-1 cells, a large proportion of the caspase-1 is present in the inactive proenzyme form. The recombinant active human caspase-1 was expressed in *E. coli*. The active caspase-1 preferentially cleaves caspase-1 substrates (e.g., YVAD-AFC or YVAD-pNA) and is routinely tested at BioVision for its ability to enzymatically cleave these two substrates Ac-YVAD-pNA or Ac-YVAD-AFC. The rh-Caspase has an N-term His-tag and corresponds to amino acids 120-404 of Caspase-1, gene accession# NP_150634.1.