

Caspase-1, mouse recombinant protein

Caspase 1

Catalog # PBV10027r

Specification

Caspase-1, mouse recombinant protein - Product info

Primary Accession P29452

Calculated MW large (20 kD) and small (10 kD) subunits.

KDa

Caspase-1, mouse recombinant protein - Additional Info

Gene ID 12362
Gene Symbol CASP1

Other Names

Caspase-1, Short name=CASP-1, Interleukin-1 beta convertase, Short name=IL-1BC, Interleukin-1 beta-converting enzyme, Short name=ICE, IL-1 beta-converting enzyme, p45

Gene Source
Source
Assay&Purity
Assay2&Purity2
Recombinant

Mouse
E. coli
SDS-PAGE;
HPLC;
Yes

Target/Specificity

Caspase-1

Application Notes

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

Format

Semi-Dry

Storage

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

Caspase-1, mouse recombinant protein - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety



• Cell Culture

Caspase-1, mouse recombinant protein - Images

Caspase-1, mouse recombinant protein - Background

Caspase-1 (also know 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 mouse 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

Caspase-1, mouse recombinant protein - References

Nett-Fiordalisi M.A.,et al.J. Immunol. 149:3254-3259(1992). Molineaux S.M.,et al.Proc. Natl. Acad. Sci. U.S.A. 90:1809-1813(1993). Casano F.J.,et al.Genomics 20:474-481(1994). van de Craen M.,et al.FEBS Lett. 403:61-69(1997).