

Datasheet for ABIN1046768

**Caspase 1 Protein (CASP1) (AA 120-269, partial) (GST tag)**[Go to Product page](#)**1** Image**3** Publications

## Overview

Quantity:	50 µg
Target:	Caspase 1 (CASP1)
Protein Characteristics:	AA 120-269, partial
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Caspase 1 protein is labelled with GST tag.
Application:	ELISA

## Product Details

Sequence:	NPAMPTSSGS EGNVKLCSLE EAQRIWKQKS AEIYPIMDKS SRTRLALIIC NEEFDSIPRR TGAEV DITGM TMLLQNLGYS VDVKKNL TAS DMTTELEAFA HRPEHKTS DS TFLVFMSHGI REGICGKKHS EQVPDILQLN AIFNMLNTKN
Characteristics:	Please inquire if you are interested in this recombinant protein expressed in E. coli, mammalian cells or by baculovirus infection. Be aware about differences in price and lead time.
Purity:	90 %

## Target Details

Target:	Caspase 1 (CASP1)
Alternative Name:	Caspase-1 protein ( <a href="#">CASP1 Products</a> )
Background:	Thiol protease that cleaves IL-1 beta between an Asp and an Ala, releasing the mature cytokine

## Target Details

which is involved in a variety of inflammatory processes. Important for defense against pathogens. Cleaves and activates sterol regulatory element binding proteins (SREBPs). Can also promote apoptosis.

Molecular Weight: 44.2 kD

UniProt: [P29466](#)

Pathways: [Apoptosis](#), [Interferon-gamma Pathway](#), [Positive Regulation of Endopeptidase Activity](#), [Inflammasome](#)

## Application Details

Comment: The yeast protein expression system is the most economical and efficient eukaryotic system for secretion and intracellular expression. A protein expressed by the mammalian cell system is of very high-quality and close to the natural protein. But the low expression level, the high cost of medium and the culture conditions restrict the promotion of mammalian cell expression systems. The yeast protein expression system serve as a eukaryotic system integrate the advantages of the mammalian cell expression system. A protein expressed by yeast system could be modified such as glycosylation, acylation, phosphorylation and so on to ensure the native protein conformation. It can be used to produce protein material with high added value that is very close to the natural protein. Our proteins produced by yeast expression system has been used as raw materials for downstream preparation of monoclonal antibodies.

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Concentration: 0.2-2 mg/mL

Buffer: Tris-based buffer, 50 % glycerol

Handling Advice: Repeated freezing and thawing is not recommended. Store working aliquots at 4 °C for up to one week

Storage: -20 °C

Storage Comment: Store at -20 °C for extended storage, conserve at -20 °C or -80 °C

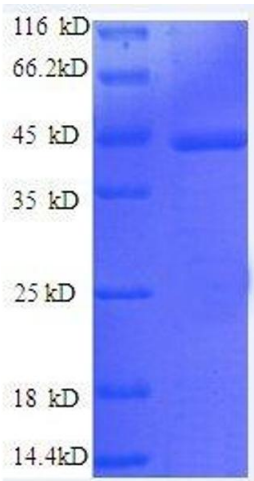
## Publications

Product cited in: Miller, Ayala, Egger, Raju, Yamin, Ding, Gaffney, Howard, Palyha, Rolando: "Purification and characterization of active human interleukin-1 beta-converting enzyme from THP.1 monocytic cells." in: **The Journal of biological chemistry**, Vol. 268, Issue 24, pp. 18062-9, (1993) ([PubMed](#)).

Thornberry, Bull, Calaycay, Chapman, Howard, Kostura, Miller, Molineaux, Weidner, Aunins: "A novel heterodimeric cysteine protease is required for interleukin-1 beta processing in monocytes." in: **Nature**, Vol. 356, Issue 6372, pp. 768-74, (1992) ([PubMed](#)).

Cerretti, Kozlosky, Mosley, Nelson, Van Ness, Greenstreet, March, Kronheim, Druck, Cannizzaro : "Molecular cloning of the interleukin-1 beta converting enzyme." in: **Science (New York, N.Y.)**, Vol. 256, Issue 5053, pp. 97-100, (1992) ([PubMed](#)).

## Images



### SDS-PAGE

**Image 1.** Caspase 1 (CASP1) (AA 120-269), (partial) protein (GST tag)