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Caspase 1 Protein (CASP1) (AA 120-296) (His tag)



Overview

Quantity:	100 μg
Target:	Caspase 1 (CASP1)
Protein Characteristics:	AA 120-296
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Caspase 1 protein is labelled with His tag.

Product Details

Sequence:	Asn 120-Asp 296
Characteristics:	A DNA sequence encoding the Mouse CASP1 protein (P29452) (Asn 120-Asp 296) was expressed with a N-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	Caspase 1 (CASP1)
Alternative Name:	CASP1 (CASP1 Products)
Background:	Abbreviation: CASP1
	Target Synonym: CASP-1,CASP1,CASP1,Caspase 1,Caspase-1 subunit p10,ICE,IL-1 beta-
	converting enzyme,IL-1BC
	Background: Caspase-1, also known as IL-1 beta -converting enzyme (ICE), is an aspartic

protease that plays a key role in the inflammatory response and apoptosis. Caspase-1		
precursor (about 50 kDa) can be cleaved and the active enzyme consists of a complex of two		
20 kDa (aa 120-297) and two 10 kDa (aa 317-404) subunits which associate following cleavage		
of inactive precursors. Caspase-1 is required for proteolytic cleavage of the IL-1 beta precursor		
to form the active proinflammatory cytokine. Alternate splicing generates several additional		
Caspase-1 isoforms with deletions in the propeptide regions or also in the mature subunits.		

Molecular Weight:

Calculated MW: 19.36 kDa

Observed MW: 21 kDa

UniProt:

P29452

Pathways:

Apoptosis, Interferon-gamma Pathway, Positive Regulation of Endopeptidase Activity,

Inflammasome

Application Details

Restrictions:

For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	12 months