

Product datasheet

Recombinant human Caspase-1 protein (Active)
ab39901

2 References 1 Image

Description

Product name	Recombinant human Caspase-1 protein (Active)	
Expression system	Escherichia coli	
Accession	P29466	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	NPAMPTSSGS EGNVKLCSLE EAQRWKQKS AEYPIMDKS SRTRLALIIC NEEFDSIPRR TGAEVDITGM TMLLQNLGYS VDVKKNLTA DMTELEAFA HRPEHKTS DS TFLVFMSHGI REGICGKKHS EQVPDILQLN AIFNMLNTKN CPSLKDKPKV IIIQACRGDS PGVWVFKDSV GVSGNLSLPT TEEFEDDAIK KAHEKDFIA FCSSTPDNVS WRHPTMGSVF IGRLEHMQE YACSCDVEEI FRKVRFSFEQ PDGRAQMPTT ERVTLTRCFYLFP GH	
Predicted molecular weight	32 kDa	
Amino acids	120 to 404	
Tags	His tag N-Terminus	
Additional sequence information	(Gene ID 834) (NP_150634.1) Full length mature protein, minus propeptide (aa 1-119).	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab39901** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies
Form	Lyophilized
Additional notes	<p>Active caspase-1 is useful in studying enzyme regulation, determining target substrates, screening caspase inhibitors, or as a positive control in caspase activity assays.</p> <p>The active caspase 1 preferentially cleaves caspase-1 substrates (e.g., YVAD-AFC or</p>

YVAD-pNA).

Preparation and Storage

Stability and Storage

Shipped at 4°C. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution

Centrifuge the vial prior to opening. Reconstitute to 1 unit per μ l in PBS containing 15% glycerol

General Info

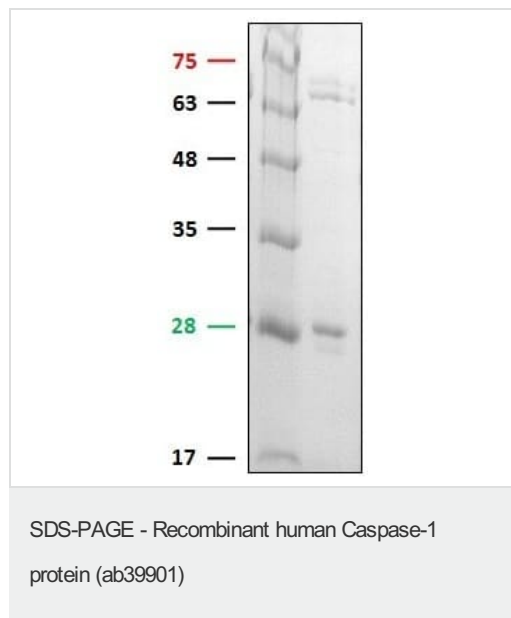
Relevance

Caspases are a family of cysteine proteases that are key mediators of programmed cell death or apoptosis. The precursor form of all caspases is composed of a prodomain, and large and small catalytic subunits. The active forms of caspases are generated by several stimuli including ligand-receptor interactions, growth factor deprivation and inhibitors of cellular functions. All known caspases require cleavage adjacent to aspartates to liberate one large and one small subunit, which associate into α 2 β 2 tetramer to form the active enzyme. Caspase 1 is similar to the cell death gene CED3 of *C. elegans* and regulates multiple proinflammatory cytokines, including Interleukin 1 β and interferon-gamma-inducing factor. Caspase 1 plays a role in down stream of Caspase 8 which is involved in Fas-mediated apoptosis.

Cellular localization

Cytoplasmic

Images



ab39901 on SDS-PAGE.

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