



# Recombinant Mouse Caspase-4 (Casp4), partial

<b>Product Code</b>	CSB-EP004549MO-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P70343
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	PGSHHG EANL EMEEPEESLN TLKLCSP EEF TRLCREKTQE IYPIKEANGR TRKALIICNT EFKHLSLRYG ANFDIIGMKG LLEDLGYDVV VKEELTAEGM ESEMKDF AAL SEHQ TSDSTF LVLMSHGTLH GICGTMHSEK TPDVLQYDTI YQIFNNCHCP GLRDKPKVII VQACRGGNSG EMWIRE
<b>Source</b>	E.coli
<b>Target Names</b>	Casp4
<b>Protein Names</b>	Recommended name: Caspase-4 Short name= CASP-4 EC= 3.4.22.64 Alternative name(s): Caspase-11 Short name= CASP-11 Protease ICH-3 Cleaved into the following 2 chains: 1. Caspase-4 subunit p10 2. Caspase-4 subunit p20
<b>Expression Region</b>	81-266
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	partial
<b>Target Details</b>	This gene encodes a protein that is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes composed of a prodomain and a large and small protease subunit. Activation of caspases requires proteolytic processing at conserved internal aspartic residues to generate a heterodimeric enzyme consisting of the large and small subunits. This caspase is able to cleave and activate its own precursor protein, as well as caspase 1 precursor. When overexpressed, this gene induces cell apoptosis. Alternative splicing results in transcript variants encoding distinct isoforms.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Shelf Life</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.