

Recombinant Human CASP12 Protein, His&SUMO-tagged

Cat. No. CASP12-622H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CASP12 Protein (Leu101-Leu337) with His&SUMO tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Leu101-Leu337
Description	Caspases are cysteine proteases that cleave C-terminal aspartic acid residues on their substrate molecules. This gene is most highly related to members of the ICE subfamily of caspases that process inflammatory cytokines. In rodents, the homolog of this gene mediates apoptosis in response to endoplasmic reticulum stress. However, in humans this gene contains a polymorphism for the presence or absence of a premature stop codon. The majority of human individuals have the premature stop codon and produce a truncated non-functional protein. The read-through codon occurs primarily in individuals of African descent and carriers have endotoxin hyporesponsiveness and an increased susceptibility to severe sepsis. Several alternatively spliced transcript variants have been noted for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 41.1 kDa; Accurate Molecular Mass: 41 kDa
Purity	> 95%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	CASP12 caspase 12 (gene/pseudogene) [Homo sapiens (human)]
Official Symbol	CASP12
Synonyms	CASP12; caspase 12; CASP-12; CASP12P1; inactive caspase-12; caspase 12 pseudogene 1
Gene ID	100506742
mRNA Refseq	NM_001191016
Protein Refseq	NP_001177945
MIM	608633

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UniProt ID

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