

Recombinant Human CASP5 protein, His & T7-tagged

Cat. No. CASP5-7647H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CASP5 aa. (Pro145~Asp327 (Accession # P51878)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Pro145~Asp327
Description	This gene encodes 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 which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. Overexpression of the active form of this enzyme induces apoptosis in fibroblasts. Max, a central component of the Myc/Max/Mad transcription regulation network important for cell growth, differentiation, and apoptosis, is cleaved by this protein; this process requires Fas-mediated dephosphorylation of Max. The expression of this gene is regulated by interferon-gamma and lipopolysaccharide. Alternatively spliced transcript variants have been identified for this gene.
Form	Freeze-dried powder
Molecular Mass	27kDa as determined by SDS-PAGE reducing conditions.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 9.4.
Applications	SDS-PAGE; WB; ELISA; IP.
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°C 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°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in ddH ₂ O.

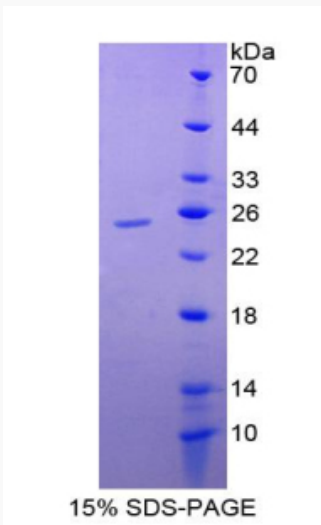
GENE INFORMATION

Gene Name	CASP5 caspase 5 [Homo sapiens (human)]
Official Symbol	CASP5
Synonyms	ICH-3; ICEREL-III; ICE(rel)III; CASP-5; ICE(rel)-III; TY protease; caspase 5, apoptosis-related cysteine peptidase; caspase 5, apoptosis-related cysteine protease; protease ICH-3; protease TY; caspase-5

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Gene ID	838
mRNA Refseq	NM_001136109.1
Protein Refseq	NP_001129581.1
UniProt ID	P51878
SDS-PAGE	 15% SDS-PAGE