# Recombinant Human CASP5 Protein, His-tagged

**Cat. No.** CASP5-821H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human CASP5, transcript variant a, fused with His tag at N-terminal was expressed in E. coli. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | 1-434 aa |
| **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** | 25mM Tris, pH8.0, 150 mM NaCl, 10% glycerol, 1 % Sarkosyl. Store at -80 centigrade. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions. |

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| **Molecular Mass** | 47.7 kDa |
| **Purity** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Concentration** | >50 ug/mL as determined by microplate BCA method |

## GENE INFORMATION

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| **Gene Name** | CASP5 caspase 5, apoptosis-related cysteine peptidase [ Homo sapiens ] |
| **Official Symbol** | CASP5 |
| **Synonyms** | CASP5; caspase 5, apoptosis-related cysteine peptidase; caspase 5, apoptosis related cysteine protease; caspase-5; ICE(rel)III; CASP-5; TY protease; protease TY; ICE(rel)-III; protease ICH-3; caspase 5, apoptosis-related cysteine protease; ICH-3; ICEREL-III; MGC141966; |
| **Gene ID** | 838 |
| **mRNA Refseq** | NM_001136109 |
| **Protein Refseq** | NP_001129581 |
| **MIM** | 602665 |
| **UniProt ID** | P51878 |

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