

## Active Recombinant Human CASP5 Protein

Cat. No. CASP5-01H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Product Overview</b> | Recombinant human CASP5 protein without tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | <p>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.</p> |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Bio-activity</b>     | <p>Activity: 100 U/<math>\mu</math>L</p> <p>Specific Activity: One U=1 pmol/min at 30 centigrade using Ac-LEHD-pNA (200 <math>\mu</math>M) as substrate.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b>   | 22 + 10 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|-----------------------|----------------------------------------------------------------------------------|
| <b>Purity</b>         | ≥ 80% SDS-PAGE                                                                   |
| <b>Storage</b>        | At -80 centigrade                                                                |
| <b>Storage Buffer</b> | In 50mM HEPES, pH 7.4, 100mM NaCl, 0.5% CHAPS, 1mM EDTA, 10% glycerol, 10mM DTT. |
| <b>Shipping</b>       | Dry Ice                                                                          |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CASP5 caspase 5 [ Homo sapiens (human) ]                                                                                                                                                                             |
| <b>Official Symbol</b> | CASP5                                                                                                                                                                                                                |
| <b>Synonyms</b>        | CASP5; caspase 5; ICH-3; ICEREL-III; ICE(rel)III; caspase-5; TY protease; caspase 5, apoptosis-related cysteine peptidase; caspase 5, apoptosis-related cysteine protease; protease ICH-3; protease TY; EC 3.4.22.58 |
| <b>Gene ID</b>         | 838                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>     | NM_004347                                                                                                                                                                                                            |
| <b>Protein Refseq</b>  | NP_004338                                                                                                                                                                                                            |
| <b>MIM</b>             | 602665                                                                                                                                                                                                               |
| <b>UniProt ID</b>      | P51878                                                                                                                                                                                                               |

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