# Recombinant Human Caspase-5 (CASP5)

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| **Product Code** | CSB-BP004550HU |
| **Storage** | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>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. |
| **Uniprot No.** | P51878 |
| **Product Type** | Recombinant Protein |
| **Immunogen Species** | Homo sapiens (Human) |
| **Purity** | >85% (SDS-PAGE) |
| **Sequence** | DQKI TSVKPLLQIE AGPPESAEST NILKLCPREE FLRLCKKNHD EIYPIKKRED RRRLALIICN TKFDHLPARN GAHYDIVGMK RLLQGLGYTV VDEKNLTARD MESVLRAFAA RPEHKSSDST FLVLMSHGIL EGICGTAHKK KKPDVLLYDT IFQIFNNRNC LSLKDKPKVI IVQACRGEKH GELWVRD |
| **Source** | Baculovirus |
| **Target Names** | CASP5 |
| **Protein Names** | Recommended name: Caspase-5 Short name= CASP-5 EC= 3.4.22.58 Alternative name(s): ICE(rel)-III Protease ICH-3 Protease TY Cleaved into the following 2 chains: 1. Caspase-5 subunit p20 2. Caspase-5 subunit p10 |
| **Expression Region** | 137-327 |
| **Notes** | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| **Tag Info** | Tag type will be determined during the manufacturing process. |
| **Protein Length** | Full Length of Mature Protein |
| **Target Details** | 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. Several alternatively spliced transcript variants encoding different isoforms have been identified for this gene. |
| **Reconstitution** | 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 |

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| | concentration of glycerol is 50%. Customers could use it as reference. |
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