

Recombinant Human Caspase 5, Apoptosis-related Cysteine Peptidase

Cat. No. CASP5-600H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CASP5 was produced in E. coli.
Species	Human
Source	E.coli
Description	Caspase 5 is an enzyme that proteolytically cleaves other proteins at an aspartic acid residue, and belongs to a family of cysteine proteases called caspases. It is an inflammatory caspase, along with caspase 1, caspase 4 and the murine caspase 4 homolog caspase 11, and has a role in the immune system.
Purity	≥95% (SDS-PAGE).
Formulation	Lyophilized.
Reconstitution	Reconstitute to 1U/μl with PBS containing 15% glycerol.
Specific Activity	~5"000U/mg protein. One unit is defined as the amount of enzyme that cleaves 1nmol of the caspase substrate WEHD-pNA per hour at 37°C in a reaction solution containing 50mM HEPES, pH 7.2, 50mM NaCl, 0.1% CHAPS, 10mM EDTA, 5% glycerol and 10mM DTT.
Application	In combination with caspase-5 activity assays, the enzyme is useful in screening caspase inhibitors, studying enzyme regulation and kinetics, determining target

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substrate or as a positive control in caspase-5 activity assays. We recommend using 1 unit per assay for analyzing caspase activity.

Storage Avoid freeze/thaw cycles. After reconstitution, prepare aliquots and store at -80°C.

GENE INFORMATION

Gene Name [CASP5 caspase 5, apoptosis-related cysteine peptidase \[Homo sapiens \]](#)

Synonyms CASP5; caspase 5, apoptosis-related cysteine peptidase; ICH-3; MGC141966; ICEREL-III; ICE(rel)III; caspase-5; CASP-5; TY protease; protease TY; ICE(rel)-III; protease ICH-3; EC 3.4.22.58; Caspase-5 subunit p20; Caspase-5 subunit p10; caspase 5, apoptosis-related cysteine protease

Gene ID [838](#)

mRNA Refseq [NM_001136109](#)

Protein Refseq [NP_001129581](#)

MIM [602665](#)

UniProt ID [P51878](#)

Chromosome Location 11q22.2-q22.3

Pathway NOD-like receptor signaling pathway

Function cysteine-type endopeptidase activity; cysteine-type peptidase activity; peptidase activity; protein binding

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