

Active Recombinant Human Caspase-5 Enzyme

Cat. No. CASP5-32H Lot. No. (See product label)

SPECIFICATION

Species	Human
Form	Lyophilized powder
Bio-activity	5000 units/mg
Purity	≥95% by SDS-PAGE
Unit Definition	One unit of the recombinant caspase-5 is the enzyme activity that cleaves 1 nmol of the caspase substrate WEHD-pNA (pNA: p-nitroaniline) per hour at 37°C in a reaction solution containing 50 mM HEPES, pH 7.2, 50 mM NaCl, 0.1% Chaps, 10 mM EDTA, 5% glycerol and 10 mM DTT.
Applications	Active caspase-5 is useful in studying enzyme regulation, determining target substrates, screening caspase inhibitors, or as a positive control in caspase activity assays. We recommend using 1 unit/assay for analyzing caspase activity.
Usage	For in vitro research use only. Not for use in diagnostics or in humans.
Storage	The lyophilized caspase-5 is stable for 1 year at -70°C. Avoid multiple freeze/thaw cycles as activity might decrease. Following reconstitution in PBS, the enzyme should be aliquoted and immediately stored at -70°C.
Reconstitution	Reconstitute to 1 unit per µL in PBS containing 15% glycerol.

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Warning

No warranties, expressed or implied, are made regarding the use of this product. Creative Biomart is not liable for any damage, personal injury, or economic loss caused by this product.

GENE INFORMATION

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
Chromosome Location	11q22.2-q22.3
Pathway	NOD-like receptor signaling pathway, organism-specific biosystem; NOD-like receptor signaling pathway, conserved biosystem;

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Function

cysteine-type endopeptidase activity; cysteine-type peptidase activity; peptidase activity;

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