

Recombinant Human CASP10

Cat. No. CASP10-26815TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein (Human)
Species	Human
Source	E.coli
Description	This gene encodes a protein which is 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. This protein cleaves and activates caspases 3 and 7, and the protein itself is processed by caspase 8. Mutations in this gene are associated with type IIA autoimmune lymphoproliferative syndrome, non-Hodgkin lymphoma and gastric cancer. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.
Tissue specificity	Detectable in most tissues. Lowest expression is seen in brain, kidney, prostate, testis and colon.
Biological activity	SPECIFIC ACTIVITY: 15000 units/mgUNIT DEFINATION:One unit of the recombinant caspase-10/b is the enzyme activity that cleaves 1 nmol of the caspase substrate IETD-pNA (pNA: pnitroaniline) per hour at 37°C in a reaction solution containing 50 mM Hepes, pH

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Form	Lyophilised:Reconstitute to 1 unit per µl in PBS containing 15% glycerol.
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 15% Glycerol, PBS
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the peptidase C14A family.Contains 2 DED (death effector) domains.
Full Length	Full L.

GENE INFORMATION

Gene Name	CASP10 caspase 10, apoptosis-related cysteine peptidase [Homo sapiens]
Official Symbol	CASP10
Synonyms	CASP10; caspase 10, apoptosis-related cysteine peptidase; caspase 10, apoptosis related cysteine protease; caspase-10; MCH4;
Gene ID	843
mRNA Refseq	NM_001206524
Protein Refseq	NP_001193453
MIM	601762
Uniprot ID	Q92851

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Chromosome Location	2q33-q34
Pathway	Apoptosis, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Apoptosis, organism-specific biosystem; Caspase cascade in apoptosis, organism-specific biosystem;
Function	cysteine-type endopeptidase activity; peptidase activity; protein binding;

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