

Recombinant Human CASP10

Cat. No. CASP10-26813TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human Caspase-10/a
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: 8000 units/mgOne unit of the recombinant caspase-10/a is the enzyme activity that cleaves 1 nmol of the caspase substrate IETD-pNA (pNA: pnitroaniline) per hour at 37°C.
Form	Lyophilised:Reconstitute to 1 unit per

 Tel: 1-631-559-9269 1-516-512-3133

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μl in PBS containing 15% glycerol. Following reconstitution in PBS and 15% glycerol, the enzyme should be aliquoted and immediately stored at –70°C. Avoid multiple freeze/thaw cycles as activity might decrease.

Purity >90% by SDS-PAGE

Storage buffer Preservative: None Constituents: 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.

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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