

Recombinant Human Caspase-10/CASP10 Protein (His Tag)



Catalog Number:PKSH032176

Note: Centrifuge before opening to ensure complete recovery of vial contents.

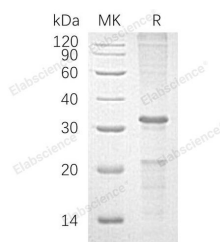
Description

| | |
|------------------------------------|---|
| Synonyms | Caspase-10;CASP-10;Apoptotic Protease Mch-4;FAS-Associated Death Domain Protein Interleukin-1B-Converting Enzyme 2;FLICE2;ICE-Like Apoptotic Protease 4;CASP10;MCH4 |
| Species | Human |
| Expression Host | E.coli |
| Sequence | Val220-Ile480 |
| Accession | Q92851-4 |
| Calculated Molecular Weight | 30.1 kDa |
| Observed molecular weight | 33 kDa |
| Tag | C-His |

Properties

| | |
|-----------------------|--|
| Purity | > 70 % as determined by reducing SDS-PAGE. |
| Endotoxin | < 1.0 EU per µg of the protein as determined by the LAL method. |
| Storage | Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles. |
| Shipping | This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C. |
| Formulation | Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 8% Sucrose, 1mM DTT, 0.05% Tween80, pH8.5. |
| Reconstitution | Not Applicable |

Data



> 70 % as determined by reducing SDS-PAGE.

Background

Caspase-10 (CASP10) is a 521 amino acid protein member of the Cysteine-Aspartic Acid Protease (Caspase) family. CASP10 contains two DED (Death Effector) domains and is detectable in most tissues. CASP10 cleavage by Granzyme B and autocatalytic activity generate the two active subunits: Caspase-10 subunit p23/17, Caspase-10 subunit p12. Caspases are a family of cytosolic aspartate-specific cysteine proteases involved in the execution-phase of cell apoptosis, the initiation and execution. Human caspases can be subdivided into three functional groups: cytokine activation (caspase-1, -4, -5, and -13), apoptosis initiation (caspase-2, -8, -9, -and -10), and apoptosis execution (caspase-3, -6, and -7). CASP10 cleaves and activates caspases 3 and 7, but itself is processed by caspase 8. Defects in CASP10 are associated with apoptosis defects seen in type II autoimmune lymphoproliferative syndrome.

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