

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



Catalog Number:PKSH032176

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

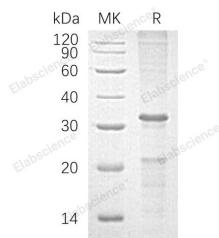
## Description

<b>Synonyms</b>	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
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Val220-Ile480
<b>Accession</b>	Q92851-4
<b>Calculated Molecular Weight</b>	30.1 kDa
<b>Observed molecular weight</b>	33 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 70 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	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.
<b>Formulation</b>	Supplied as a 0.2 $\mu$ m filtered solution of 20mM Tris-HCl, 8% Sucrose, 1mM DTT, 0.05% Tween80, pH8.5.
<b>Reconstitution</b>	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.

## For Research Use Only

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