

Recombinant Human CASP2, His-tagged

Cat. No. CASP2-195H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CASP2, 348-452aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	348-452aa
Description	CASP2 is 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. The proteolytic cleavage of this protein is induced by a variety of apoptotic stimuli. Alternative splicing of this gene results in multiple transcript variants that encode different isoforms. Recombinant human CASP2 protein, fused to His-tag at N-terminus, was expressed in E.coli .
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	14.1kDa (126aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MAGKEKLPKM RLPTRSDMIC GYACKLKGTA MRNTKRGSWY IEALAQVFSE RACDMHVADM LVKVNALIKD REGYAPGTEF HRCKEMSEYC STLCRHL YLF PGHPPT

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Purity	>80% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1.0 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	CASP2 caspase 2, apoptosis-related cysteine peptidase [Homo sapiens]
Official Symbol	CASP2
Synonyms	CASP2; caspase 2, apoptosis-related cysteine peptidase; NEDD2, neural precursor cell expressed, developmentally down regulated 2; caspase-2; ICH1; PPP1R57; protein phosphatase 1; regulatory subunit 57; protease ICH-1; protein phosphatase 1, regulatory subunit 57; neural precursor cell expressed developmentally down-regulated protein 2; NEDD2; CASP-2; NEDD-2;
Gene ID	835
mRNA Refseq	NM_001224
Protein Refseq	NP_001215
MIM	600639
UniProt ID	P42575
Chromosome Location	7q34-q35

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Pathway

Apoptosis, organism-specific biosystem; Apoptosis Modulation by HSP70, organism-specific biosystem; Caspase cascade in apoptosis, organism-specific biosystem; Cell death signalling via NRAGE, NRIF and NADE, organism-specific biosystem; HIV-1 Nef: Negative effector of Fas and TNF-alpha, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem;

Function

cysteine-type endopeptidase activity; enzyme binding; peptidase activity; protein binding; protein domain specific binding;

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