

## Recombinant Human CASP2, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	CASP2, 348-452aa, Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	348-452aa
<b>Description</b>	<p>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 .</p>
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
<b>Molecular Mass</b>	14.1kDa (126aa)
<b>AA Sequence</b>	<p>MGSSHHHHHH SSGLVPRGSH MAGKEKLPKM RLPTRSDMIC GYACLKGTAA  MRNTKRGSWY IEALAQVFSE RACDMHVADM LVKVNALIKD REGYAPGTEF  HRCKEMSEYC STLCRHLYLF PGHPPT</p>

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	>80% by SDS - PAGE
<b>Storage</b>	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.
<b>Concentration</b>	1.0 mg/ml (determined by Bradford assay)

## GENE INFORMATION

<b>Gene Name</b>	CASP2 caspase 2, apoptosis-related cysteine peptidase [ Homo sapiens ]
<b>Official Symbol</b>	CASP2
<b>Synonyms</b>	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;
<b>Gene ID</b>	835
<b>mRNA Refseq</b>	NM_001224
<b>Protein Refseq</b>	NP_001215
<b>MIM</b>	600639
<b>UniProt ID</b>	P42575
<b>Chromosome Location</b>	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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