Active Recombinant Human CASP8 Protein, His tagged

Cat. No. CASP8-404H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human CASP8 Protein (Ser217-Asp384 (Asp285His) (p18 subunit) & Leu385-Asp479 (p10 subunit)) with a C-terminal 6-His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene encodes 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 composed of a prodomain, a large protease subunit, and a small protease subunit. Activation of caspases requires proteolytic processing at conserved internal aspartic residues to generate a heterodimeric enzyme consisting of the large and small subunits. This protein is involved in the programmed cell death induced by Fas and various apoptotic stimuli. The N-terminal FADD-like death effector domain of this protein suggests that it may interact with Fas-interacting protein FADD. This protein was detected in the insoluble fraction of the affected brain region from Huntington disease patients but not in those from normal controls, which implicated the role in neurodegenerative diseases. Many alternatively spliced transcript variants encoding different isoforms have been described, although not all variants have had their full-length sequences determined.
Molecular Mass	18 kDa & 10 kDa

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Bio-activity	Measured by its ability to cleave a fluorogenic peptide substrate Ac-IETD-AFC. The specific activity is > 1,000 pmol/min/μg, as measured under the described conditions.
Endotoxin	< 1.0 EU/μg of the protein by the LAL method.
Purity	> 95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
N-terminal Sequence Analysis	Ser217 (p18 subunit) & Leu385 (p10 subunit)
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -70 centigrade as supplied. 3 months, -70 centigrade under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 μm filtered solution in HEPES, NaCl, DTT and Sucrose.
Shipping	The product is shipped with dry ice or equivalent.

GENE INFORMATION

Gene Name	CASP8 caspase 8, apoptosis-related cysteine peptidase [Homo sapiens (human)]
Official Symbol	CASP8
Synonyms	CASP8; caspase 8, apoptosis-related cysteine peptidase; caspase 8, apoptosis related cysteine protease; caspase-8; Casp 8; FLICE; MACH; MCH5; FADD-like ICE; MACH-alpha-1/2/3 protein; apoptotic protease Mch-5; MACH-beta-1/2/3/4 protein; apoptotic cysteine protease; ICE-like apoptotic protease 5; MORT1-associated ced-3 homolog; FADD-homologous ICE/CED-3-like protease; caspase 8, apoptosis-related cysteine protease; CAP4; ALPS2B; Casp-8; FLJ17672; MGC78473;

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Gene ID	841
mRNA Refseq	NM_001080124
Protein Refseq	NP_001073593
MIM	601763
UniProt ID	Q14790

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