Recombinant Human CASP8 Protein

Cat. No. CASP8-0863H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CASP8 Protein without tag was expressed in E.coli.
Species	Human
Source	E.coli
Description	Most upstream protease of the activation cascade of caspases responsible for the TNFRSF6/FAS mediated and TNFRSF1A induced cell death. Binding to the adapter molecule FADD recruits it to either receptor. The resulting aggregate called death-inducing signaling complex (DISC) performs CASP8 proteolytic activation. The active dimeric enzyme is then liberated from the DISC and free to activate downstream apoptotic proteases. Proteolytic fragments of the N-terminal propeptide (termed CAP3, CAP5 and CAP6) are likely retained in the DISC. Cleaves and activates CASP3, CASP4, CASP6, CASP7, CASP9 and CASP10. May participate in the GZMB apoptotic pathways. Cleaves PARP1. Hydrolyzes the small-molecule substrate, Ac-Asp-Glu-Val-Asp-|-AMC. Likely target for the cowpox virus CRMA death inhibitory protein. Cleaves RIPK1 at 'Asp-324', which is crucial to inhibit RIPK1 kinase activity, limiting TNF-induced apoptosis, necroptosis and inflammatory response.
Form	Lyophilized powder/frozen liquid
Purity	>90% as determined by SDS-PAGE.
Notes	For research use only.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

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;
Gene ID	841
mRNA Refseq	NM_001080124
Protein Refseq	NP_001073593
MIM	601763

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UniProt ID	Q14790

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