

Recombinant Human Fas (TNFRSF6)-associated via death domain, His-tagged

Cat. No. FADD-4351H Lot. No. (See product label)

SPECIFICATION

Product Overview	FADD produced in E.Coli is a single, non-glycosylated polypeptide chain containing 244 amino acids (1-208 a.a.) and having a molecular mass of 27.4 kDa. FADD is fused to 36 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.
Species	Human
Source	Human
ProteinLength	1-208 a.a.
Description	FADD is an adaptor protein that cooperates with a variety of cell surface receptors and mediates cell apoptotic signals. Using its C-terminal death domain, FADD is recruited by TNFRSF6/Fas-receptor, tumor necrosis factor receptor, TNFRSF25, and TNFSF10/TRAIL-receptor, and consequently it take parts in the death signaling initiated by these receptors. FADD interaction with the receptors reveals the N-terminal effector domain of, which allows it to recruit caspase-8, and thus initiate the cysteine protease cascade. Knockout studies in mice furthermore propose the significance of FADD in premature T cell development. FADD plays a role in survival/proliferation and cell cycle development. FADD also takes part in cellular sublocalization, protein phosphorylation, and inhibitory molecules.
Form	The FADD protein solution contains 20mM Tris-HCl, pH-8, and 10% glycerol.

 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

Purity	Greater than 95.0% as determined by SDS-PAGE.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Amino acid sequence	MRGSHHHHHHGMASMTGGQQM GRDLYDDDDKDRWGSMDPFLVLL HSVSSSLSSSELTELKFLCLGRVGKRLERVQSGLDLFSMLLEQND LEPGHTELLRELLASLRRH DLLRRVDDFEAGAAAGAAPGEEDLCAAFNVI CDNVGKDWRRRLARQLKVSDTKIDSI EDRYPRNLTERVRESLRIWKN TEKENATVAHLVGALRSCQMNLVADLVQEVQQAR DLQNRSGAMSPMSWN SDAST SEAS
Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Pathways	Apoptosis; Toll-like receptor signaling pathway; Apoptosis
Functions	death receptor binding; identical protein binding

GENE INFORMATION

Gene Name	FADD Fas (TNFRSF6)-associated via death domain [Homo sapiens]
Official Symbol	FADD
Synonyms	FADD; Fas (TNFRSF6)-associated via death domain; GIG3; MORT1; MGC8528; Fas-associated via death domain; growth-inhibiting gene 3 protein; mediator of receptor-induced toxicity; Fas-associating protein with death domain; Fas-associating death domain-containing protein; mediator of receptor-induced toxicity; Protein FADD; Mediator of receptor induced toxicity
Gene ID	8772

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mRNA Refseq	NM_003824
Protein Refseq	NP_003815
MIM	602457
UniProt ID	Q13158
Chromosome Location	11q13.3

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