



## Product Information

### FADD

Human, recombinant  
Expressed in *E. coli*

Product Number **F 1302**  
Storage Temperature  $-70\text{ }^{\circ}\text{C}$

Synonyms: Mort-1; Fas Associated Death Domain

### Product Description

FADD (Fas Associated Death Domain) is prepared as a N-terminal maltose binding protein (MBP) fusion protein expressed in *E. coli*. The fusion protein contains 617 amino acids with a molecular weight of approximately 68 kDA. The fusion protein maintains the ability to bind caspase 8 from a Jurkat cell extract and may be used to study protein-protein interactions.

FADD is an apoptosis adapter molecule enabling transduction of the apoptosis signal initiated via the FasL/Fas receptor interaction. The protein contains a C-terminal death domain, which interacts with the Fas receptor death domain. The N-terminus contains a death effector domain (DED), which recruits caspase 8 to the death inducing signaling complex (DISC) and initiates the apoptotic caspase cascade.<sup>1,2</sup>

Recently FADD was also implicated in non-apoptotic cellular pathways such as the regulation of cell cycle machinery in T lymphocytes, which was found to be connected to phosphorylation state of FADD,<sup>3,4</sup> and the FasL/TRAIL-induced transcriptional activation of c-fos protooncogene.<sup>5</sup>

FADD has also been found to interact with the hepatitis C virus core protein in the HEK-293 cell line.<sup>6</sup>

The product is supplied as a solution containing 20 mM Tris, pH 7.4, 250 mM NaCl, 1 mM EDTA, 1 mM DTT, and 10% glycerol.

Purity: minimum 85% (SDS-PAGE).

### Precautions and Disclaimer

This product is for laboratory research use only. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

### Storage/Stability

The product ships on dry ice and storage at  $-70\text{ }^{\circ}\text{C}$  is recommended.

### References

1. Kruidering, M., and Evan, G.I., *IUBMB Life*, **50**, 85-90 (2000).
2. Strasser, A., and Newton, K., *Int. J. Biochem. Cell Biol.*, **31**, 533-537 (1999).
3. Zhang, J. et al., *J. Biol. Chem.*, **276**, 29815-29818 (2001).
4. Scaffidi, C. et al., *J. Immunol.*, **164**, 1236-1242 (2000).
5. Siegmund, D. et al., *J. Biol. Chem.*, **276**, 32585-32590 (2001).
6. Zhu, N. et al., *Virology*, **283**, 178-187 (2001).

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