

## Product Information

### FADD, His-tagged, human recombinant, expressed in *E. coli* cells

Catalog Number **SRP5180**  
Storage Temperature  $-70^{\circ}\text{C}$

Synonyms: GIG3, MORT1, MGC8528

#### Product Description

FADD or Fas-Associated protein with Death Domain is an adaptor molecule that mediates death signaling by the Fas-receptor, tumor necrosis factor receptor, and TRAIL-receptor. FADD binds to these receptors via the C-terminus Death Domain which then unmasks the N-terminal effector domain of FADD; thereby, allowing it to recruit caspase-8 and activate the cysteine protease cascade leading to apoptosis.<sup>1</sup> Cells lacking FADD are defective in intracellular double-stranded RNA (dsRNA)-activated gene expression, including production of type I (alpha/beta) interferons and are thus very susceptible to viral infection.<sup>2</sup>

Recombinant full-length human FADD was expressed in *E. coli* cells using an N-terminal His tag. The gene accession number is NM\_003824. Recombinant protein stored in 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, and 25% glycerol.

Molecular mass: ~27 kDa

Purity: 70–95% (SDS-PAGE, see Figure 1)

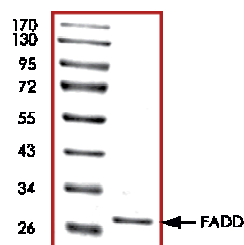
#### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. 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  $-70^{\circ}\text{C}$  is recommended. After opening, aliquot into smaller quantities and store at  $-70^{\circ}\text{C}$ . Avoid repeated handling and multiple freeze/thaw cycles.

**Figure 1.**  
SDS-PAGE Gel of Typical Lot  
70–95% (densitometry)



#### References

1. Sheikh, M.S. et al., The FADD is going nuclear. *Cell Cycle*, **2(4)**, 346–7 (2004).
2. Balachandran, S. et al., A FADD-dependent innate immune mechanism in mammalian cells. *Nature*, **432**, 401-405 (2004).

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