



### Synonym

DIABLO,SMAC

### Source

Human SMAC, His Tag(DIO-H5129) is expressed from E. coli cells. It contains AA Ala 56 - Asp 239 (Accession # [NP\\_063940](#)).

Predicted N-terminus: Met

### Molecular Characterization

SMAC(Ala 56 - Asp 239)  
NP\_063940 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 21.7 kDa. The protein migrates as 22 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).

### Purity

>95% as determined by SDS-PAGE.

### Formulation

Lyophilized from 0.22 µm filtered solution in 20 mM HEPES, 150 mM NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

### Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

### Storage

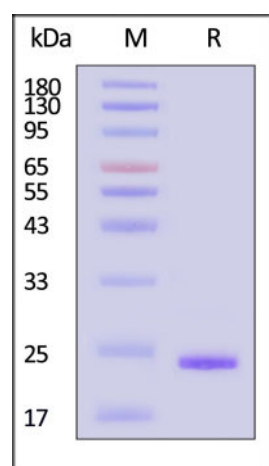
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

### SDS-PAGE



Human SMAC, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

### Background

Diablo homolog, mitochondrial (DIABLO) is also known as direct IAP-binding protein with low pI and second mitochondria-derived activator of caspase (SMAC), which can interact with BIRC2/c-IAP1, BIRC3/c-IAP2, XIAP/BIRC4, BIRC6/bruce and BIRC7/livin. Acting by opposing the inhibitory activity of inhibitor of apoptosis proteins (IAP),DIABLO can also promote apoptosis by activating caspases in the cytochrome c/Apaf-1/caspase-9 pathway. Also, DIABLO inhibits the activity of BIRC6/bruce by inhibiting its binding to caspases. Furthermore, DIABLO is defective in the capacity to down-regulate the XIAP/BIRC4 abundance.

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# Human SMAC / Diablo Protein, His Tag

Catalog # DIO-H5129



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