# **PRODUCT INFORMATION**

**Expression system** E.coli

**Domain** 56-239aa

UniProt No. Q9NR28

NCBI Accession No. NP\_063940

### **Alternative Names**

Diablo isoform 1, SMAC3, DIABLO-S, FLJ10537, FLJ25049, Diablo isoform 1, SMAC/Diablo, Diablo isoform 1 0610041G12Rik, DBOH, Diablo homolog, DIABLO S, Diablo homolog (Drosophila), Mitochondrial Smac protein, Diablo homolog mitochondrial, SMAC 3, Smac protein, Direct IAP binding protein with low pl, Second mitochondria derived activator of caspase.

## **PRODUCT SPECIFICATION**

### **Molecular Weight**

22 kDa (199aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5)

Purity

> 95% by SDS-PAGE

Tag T7-Tag

Application SDS-PAGE

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

Smac/Diablo is one of the proapoptotic proteins. Smac promotes caspase activation in the cytochrome c/Apaf-1/caspase-9 pathway by binding to inhibitor of apoptosis proteins (IAPs) and removing their inhibitory activity. Recombinant human Smac fused to T7-tag. at N-terminus was expressed in E. coli and purified by conventional



chromatography techniques.

### **Amino acid Sequence**

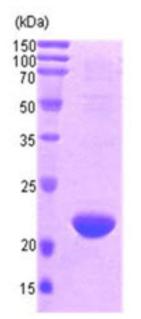
MASMTGGQQM GRGSMAVPIA QKSEPHSLSS EALMRRAVSL VTDSTSTFLS QTTYALIEAI TEYTKAVYTL TSLYRQYTSL LGKMNSEEED EVWQVIIGAR AEMTSKHQEY LKLETTWMTA VGLSEMAAEA AYQTGADQAS ITARNHIQLV KLQVEEVHQL SRKAETKLAE AQIEELRQKT QEEGEERAES EQEAYLRED

#### **General References**

Srinivasula SM., et al. (2000). J Biol Chem. 275(46):36152-7. Du C., et al. (2000). Cell. 102(1):33-42.

## DATA

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)