

Datasheet for ABIN7197843 **DIABLO Protein (His tag)**



Overview

Quantity:	100 µg
Target:	DIABLO
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This DIABLO protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human SMAC/Diablo Protein (His Tag)(Active)
Sequence:	Ala 56-Asp 239
Characteristics:	A DNA sequence encoding the mitochondrial-located form of human Diablo (NP_063940.1) (Ala 56-Asp 239) was expressed with a polyhistidine tag at the C-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA.Immobilized recombinant human SMAC-His at 10 μ g/ml (100 μ l/well) can bind recombinant human XIAP-AVI with a linear range of 0.125-1.0 μ g/ml.

Target Details

Target:	DIABLO
Alternative Name:	SMAC/Diablo (DIABLO Products)

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Target Details	
Background:	Background: Apoptosis is an essential processes required for normal development and
	homeostasis of all metazoan organisms. Second Mitochondria-Derived Activator of Caspases
	(Smac) or Direct IAP Binding Protein with low isoelectric point, pl (Diablo) is a proapoptogenic
	mitochondrial protein that is released to the cytosol in response to diverse apoptotic stimuli,
	including commonly used chemotherapeutic drugs. The current knowlege about structure and
	function of Smac/Diablo during programmed cell death, both in mitochondrial and receptor
	pathways are presented. It has been shown that Diablo mainly interacts with IAPs in the
	cytochrome c/Apaf-1/caspase-9 pathway, and promotes apoptosis. Diablo is released from the
	mitochondria into the cytosol occurring downstream of cytochrome c release in response to
	apoptotic stimuli such as irradiation, DNA damage or cytotoxic drugs. In the cytosol,
	Smac/Diablo interacts and antagonizes inhibitors of apoptosis proteins (IAPs), thus allowing
	the activation of caspases and apoptosis. This activity has prompted the synthesis of
	peptidomimetics that could potentially be used in cancer therapy. The role of Smac/DIABLO in
	colorectal carcinogenesis is ill defined. Data continues to accumulate to suggest that
	decreased levels of Smac/DIABLO may be important in chemoradiation-resistance to apoptosis
	in advanced colon cancer.
	Synonym: DFNA64,SMAC
Molecular Weight:	22 kDa

NCBI Accession:	NP_063940
Pathways:	Apoptosis, Caspase Cascade in Apoptosis, Positive Regulation of Endopeptidase Activity

Application Details

Restrictions:

For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted
	samples are stable at < -20°C for 3 months.

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