

Datasheet for ABIN7556702 SMAD1 Protein (AA 1-465) (His tag)



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Quantity:	1 mg
Target:	SMAD1
Protein Characteristics:	AA 1-465
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMAD1 protein is labelled with His tag.

Purpose:	Custom-made recombinant Smad1 Protein expressed in mammalian cells.
Sequence:	MNVTSLFSFT SPAVKRLLGW KQGDEEEKWA EKAVDALVKK LKKKKGAMEE LEKALSCPGQ
	PSNCVTIPRS LDGRLQVSHR KGLPHVIYCR VWRWPDLQSH HELKPLECCE FPFGSKQKEV
	CINPYHYKRV ESPVLPPVLV PRHSEYNPQH SLLAQFRNLG QNEPHMPLNA TFPDSFQQPN
	SHPFPHSPNS SYPNSPGGSS STYPHSPTSS DPGSPFQMPA DTPPPAYLPP EDPMAQDGSQ
	PMDTNMMAPP LPAEISRGDV QAVAYEEPKH WCSIVYYELN NRVGEAFHAS STSVLVDGFT
	DPSNNKNRFC LGLLSNVNRN STIENTRRHI GKGVHLYYVG GEVYAECLSD SSIFVQSRNC
	NYHHGFHPTT VCKIPSGCSL KIFNNQEFAQ LLAQSVNHGF ETVYELTKMC TIRMSFVKGW
	GAEYHRQDVT STPCWIEIHL HGPLQWLDKV LTQMGSPHNP ISSVS Sequence without tag. The
	proposed Purification-Tag is based on experiences with the expression system, a different
	complexity of the protein could make another tag necessary. In case you have a special
	request, please contact us.

isoform, please contact us regarding an individual offer. Characteristics: Key Benefits: Made to order protein - from design to production - by highly experienced protein experts. Protein expressed in mammalian cells and purified in one-step affinity chromatography · The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified. > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC) Purity: custom-made Grade: **Target Details** SMAD1 Target: Alternative Name: Smad1 (SMAD1 Products) Background: Mothers against decapentaplegic homolog 1 (MAD homolog 1) (Mothers against DPP homolog 1) (Dwarfin-A) (Dwf-A) (Mothers-against-DPP-related 1) (Mad-related protein 1) (mMad1) (SMAD family member 1) (SMAD 1) (Smad1), FUNCTION: Transcriptional modulator that plays a role in various cellular processes, including embryonic development, cell differentiation, and tissue homeostasis (PubMed:11566864, PubMed:15329343, PubMed:21420501, PubMed:35594155). Upon BMP ligand binding to their receptors at the cell surface, is phosphorylated by activated type I BMP receptors (BMPRIs) and associates with SMAD4 to form an heteromeric complex which translocates into the nucleus acting as transcription factor. In turn, the hetero-trimeric complex recognizes cis-regulatory elements containing Smad Binding Elements (SBEs) to modulate the outcome of the signaling network.

SMAD1/OAZ1/PSMB4 complex mediates the degradation of the CREBBP/EP300 repressor

SNIP1 (By similarity). Positively regulates BMP4-induced expression of odontogenic

Target Details

Expiry Date:

12 months

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	development regulator MSX1 following IPO7-mediated nuclear import (PubMed:34995814). {ECO:0000250 UniProtKB:Q15797, ECO:0000269 PubMed:11566864, ECO:0000269 PubMed:15329343, ECO:0000269 PubMed:21420501, ECO:0000269 PubMed:34995814, ECO:0000269 PubMed:35594155}.
Molecular Weight:	52.2 kDa
UniProt:	P70340
Pathways:	Stem Cell Maintenance, Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development
Application Details	
Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.