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## Datasheet for ABIN7319041 **SMAD1 Protein (GST tag)**

### Overview

Quantity:	50 µg
Target:	SMAD1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMAD1 protein is labelled with GST tag.

### Product Details

Purpose:	Recombinant Human SMAD1 Protein (GST Tag)
Sequence:	Met 1-Ser465
Characteristics:	Recombinant Human Mothers Against Decapentaplegic Homolog 1 is produced by our E.coli expression system and the target gene encoding Met1-Ser465 is expressed with a GST tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

### Target Details

Target:	SMAD1
Alternative Name:	SMAD1 ( <a href="#">SMAD1 Products</a> )
Background:	Background: SMAD Family Member 1 (SMAD1) is a member of the dwarfin/SMAD family. SMAD1 has the highest expression in the heart and skeletal muscle, containing one MAD

## Target Details

homology 1 domain and one MAD homology 2 domain, As a transcriptional modulator SMAD 1 is activated by bone morphogenetic proteins type 1 receptor kinase. Defects in SMAD1 may cause primary pulmonary hypertension (PPH1), characterized by plexiform lesions of proliferating endothelial cells in pulmonary arterioles. The lesions lead to elevated pulmonary arterial pressure, right ventricular failure and death.

Synonym: Mothers Against Decapentaplegic Homolog 1, MAD Homolog 1, Mothers Against DPP Homolog 1, JV4-1, Mad-Related Protein 1, SMAD Family Member 1, Transforming Growth Factor-Beta-Signaling Protein 1, BSP-1, SMAD1, BSP1, MADH1, SMAD 1, Smad1, hSMAD1, MADR1

Molecular Weight: 78.7 kDa

UniProt: [Q15797](#)

Pathways: [Stem Cell Maintenance](#), [Regulation of Muscle Cell Differentiation](#), [Skeletal Muscle Fiber Development](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, pH 8.0 .

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.