Recombinant Human SMAD1 Protein (GST Tag)

Catalog No. PKSH033065

Note: Centrifuge before opening to ensure complete recovery of vial contents.

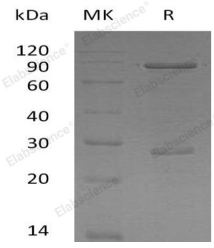
Description

Synonyms	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
Species	Human
Expression Host	E.coli
Sequence	Met 1-Ser465
Accession	Q15797
Calculated Molecular Weight	78.7 kDa
Observed molecular weight	28&89 kDa
Tag	N-GST
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.0 . Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

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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 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 pression, right ventricular failure and death.

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