Recombinant Human SMAD1 Protein (GST Tag)

Catalog Number: 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

SpeciesHumanExpression HostE.coli

SequenceMet 1-Ser465AccessionQ15797Calculated Molecular Weight78.7 kDaObserved molecular weight28&89 kDaTagN-GST

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°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.

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 .

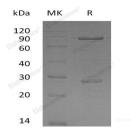
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the prin

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

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

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endothelial cells in pulmonary arterioles. The lesions lead to elevated pulmonary arterial pression, right ventricular failure and death.

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