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Recombinant Mouse SMAD2 Protein (His & GST Tag)

Catalog No. PKSM040517

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

Description

Synonyms 7120426M23Rik;Madh2;Madr2;mMad2;Smad-2

Species Mouse

Expression Host Baculovirus-Insect Cells

SequenceSer2-Ser467AccessionQ62432Calculated Molecular Weight80.0 kDaObserved molecular weight90 kDaTagN-His-GST

Bioactivity Not validated for activity

Properties

Purity > 90 % 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 sterile 20mM Tris, 500mM Nacl, pH 8.0, 10% glycerol, 3mM

DTT

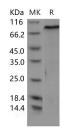
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

<u>Data</u>



> 90 % as determined by reducing SDS-PAGE.

Background

SMAD2 is a member of the SMAD family. Members of this family mediate signal transduction by the TGF-

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beta/activin/BMP-2/4 cytokine superfamily from receptor Ser/Thr protein kinases at the cell surface to the nucleus. SMAD2 mediates the signal of the TGF-beta, and therefore regulates multiple cellular processes, such as cell proliferation, apoptosis, and differentiation. SMAD2 is recruited to the TGF-beta receptors through its interaction with the SMAD anchor for receptor activation (SARA) protein. SMAD2 is the downstream signal transducers of TGF-beta-1 in human dental pulp cells. In response to TGF-beta signal, this protein is phosphorylated by the TGF-beta receptors. Phosphorylated SMAD2 is able to form a complex with SMAD4 or SARA. These complexes accumulate in the cell nucleus, where they are directly participating in the regulation of gene expression.

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