



Recombinant Protein Technical Manual
Recombinant Mouse Smad5 Protein (His & GST Tag)
RPES4982

Product Data:

Product SKU: RPES4982

Size: 20µg

Species: Mouse

Expression host: Baculovirus-Insect Cells

Uniprot: P97454

Protein Information:

Molecular Mass: 79.9 kDa

AP Molecular Mass: 75-88 kDa

Tag: N-His-GST

Bio-activity:

Purity: > 90 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg of the protein as determined by the LAL method.

Storage: 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

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

Application:

Synonyms: 1110051M15Rik;AI451355;Dwf-C;Madh5;MusMLP

Immunogen Information:

Sequence: Thr2-Ser465

Background:

SMAD5 is a member of the SMAD family. Members of this family mediate signal transduction by the TGF-beta/activin/BMP-2/4 cytokine superfamily from receptor Ser/Thr protein kinases at the cell surface to the nucleus. SMAD5 is involved in the TGF-beta signaling pathway that results in an inhibition of the proliferation of hematopoietic progenitor cells. It is also involved in cell signalling and modulates signals of bone morphogenetic proteins (BMP's). The binding of ligands causes the oligomerization and phosphorylation of the SMAD5 protein. SMAD5 is a receptor regulated SMAD (R-SMAD) and is activated by bone morphogenetic protein type 1 receptor kinase.