Recombinant Mouse TGFBR2 protein (His Tag)

Catalog Number: PDEM100290

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

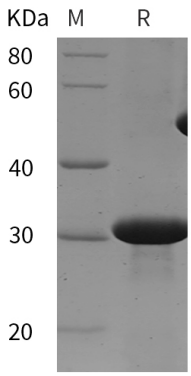
Description

Species	Mouse
Source	E.coli-derived Mouse TGFBR2 protein Asp371-Lys592, with an N-terminal His
Calculated MW	24.3 kDa
Observed MW	32 kDa
Accession	Q62312
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg 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 in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



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Background

Transforming growth factor-β (TGF-β) is an essential regulator in the processes of development, cell proliferation, and extracellular matrix deposition. TGF-β regulates cellular processes by binding to three high-affinity cell surface receptors: TGF-β receptor type I (TGF-β-RI), TGF-β receptor type II (TGF-β-RII), and TGF-ββ receptor type III (TGF-β-RIII). TGF-β RII is consists of a C-terminal protein kinase domain and an N-terminal ectodomain and belongs to transforming growth factor-beta (TGF-β) receptor subfamily. TGF-β RII has a protein kinase domain which can form a heterodimeric complex with another receptor protein and bind TGF-beta. This receptor/ligand complex phosphorylates protein will enter the nucleus and regulate the transcription of a subset of genes related to cell proliferation.