Recombinant Mouse TGFBR2 Protein (Fc Tag)

Catalog Number: PKSM041170

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

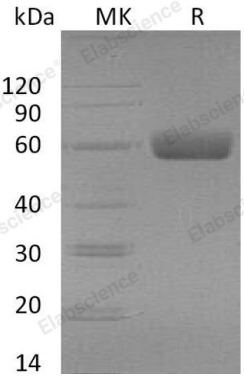
Description

Species	Mouse
Source	HEK293 Cells-derived Mouse TGFBR2 protein Ile24-Asp159, with an C-terminal Fc
Calculated MW	42.3 kDa
Observed MW	55-65 kDa
Accession	Q62312-2
Bio-activity	Measured by its ability to inhibit TGF-beta 1 activity on TF- 1 human erythroleukemic cells.The ED_{50} for this effect is 69.07 ng/ml in the presence of 1ng/ml of recombinant human TGF-beta 1.

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 PBS, pH 7.4. 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.

Data



> 95 % as determined by reducing SDS-PAGE.

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-RII I). 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.

Toll-free: 1-888-852-8623
Tel: 1-832-243-6086
Fax: 1-832-243-6017
Web: www.elabscience.com
Email: techsupport@elabscience.com