

TGFR2 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	TGFR-2;TGF-beta type II receptor;Transforming growth factor-beta receptor type II;TGF- β type II receptor;T β R-II;TbetaR-II;TGF- β receptor type II;Transforming growth factor- β receptor type II;TGF- β receptor type-2;Tgfr2;TGF-beta receptor type-2;TGF-beta receptor type II
Protein Construction:	Ile24-Asp159
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q62312-2
Molecular Weight:	25-38 KDa (reducing condition)
AA Sequence:	Ile24-Asp159

QC Testing

Biological Activity:	Measured by its ability to inhibit TGF-beta 1 activity on TF-1 human erythroleukemic cells. The ED50 for this effect is 1680.39ng/ml in the presence of 1ng/ml of recombinant human TGF-beta 1. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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- β β receptor type III

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(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.

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