

TGFBR1 Protein, Human, Recombinant (mFc & Avi)

General Information

Synonyms:	tbetaR-I;TGFβRI;TGFbetaRI;LDS2A;ALK-5;TGF-beta RI;tβR-I;TGF-β RI;TGFR-1;TGFB1R1;ACVRLK4;LDS1A;AAT5;TGFBR1;TGF-bRI;SKR4
Protein Construction:	Leu34-Glu125
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P36897-1
Molecular Weight:	38.2 kDa (predicted). Due to glycosylation, the protein migrates to 50-55 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Human TGFBR1, mFc Tag captured on CM5 Chip via Protein A can bind Human Mature TGF beta 1, No Tag with an affinity constant of 0.35 μM as determined in SPR assay.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/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:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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 beta receptor 1 (TGFBR1), a key stimulator of tumor proliferation and metastasis, was a direct target of miR-98-5p. miR-98-5p overexpression resulted in the downregulation of TGFBR1 and the suppression of the viability, proliferation, migration and invasion of A549 and H1299 cells.

Reference

Jiang F, et al. MicroRNA-98-5p inhibits proliferation and metastasis in non-small cell lung cancer by targeting TGFBR Int J Oncol. 2019 Jan;54(1):128-138. doi: 10.3892/ijo.2018.4610. Epub 2018 Oct 29. PMID: 30387848; PMCID: PMC6255066.

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