

TNFR2/CD120b/TNFR1B Protein, Cynomolgus, Recombinant (His)

General Information

Synonyms:	p75TNFR;p75TBPII;CD120b;TNF-R75;TNFR1B;TNFR2;TNF-R2;Etanercept;TBPII;TNFRSF1B;TNFBR;TNF RII;TNFR80
Protein Construction:	Leu23-Asp257
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	A0A2K5VEV7
Molecular Weight:	26.1 kDa (predicted). Due to glycosylation, the protein migrates to 49-60 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Cynomolgus TNFR2, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-TNFR2 Antibody, hFc Tag with the EC50 of 3.5ng/ml determined by ELISA.
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

Tumor Necrosis Factor Receptor II (TNF RII), also known as TNFRSF1B, p75/p80, and CD120b, is a type I transmembrane protein that belongs to the TNF receptor superfamily. It has a molecular weight of approximately 75 kDa. Receptor with high affinity for TNFSF2/TNF-alpha and approximately 5-fold lower affinity for homotrimeric

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TNFSF1/lymphotoxin-alpha. The TRAF1/TRAF2 complex recruits the apoptotic suppressors BIRC2 and BIRC3 to TNFRSF1B/TNFR2. This receptor mediates most of the metabolic effects of TNF-alpha. Isoform 2 blocks TNF-alpha-induced apoptosis, which suggests that it regulates TNF-alpha function by antagonizing its biological activity.

Reference

Vanamee, et al. TNFR2: A Novel Target for Cancer Immunotherapy[J]. Trends in Molecular Medicine, 2017: S1471491417301697.

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