

Latent TGF beta 1 Protein, Mouse, Recombinant (His) V2

General Information

Synonyms:	TGFbeta1;TGF-β1;Tgfb-1;TGFβ1;transforming growth factor, beta 1;transforming growth factor, β1;TGF β1;Tgfb;TGF-beta1
Protein Construction:	Leu30-Ser390
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P04202
Molecular Weight:	29.5/12.9 kDa (Predicted); 40-50/14-15 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Immobilized Mouse Latent TGF beta 1, His Tag at 5 µg/ml (100 µl/well) on the plate. Dose response curve for Biotinylated Human ITGAV&ITGB6, hFc Tag with the EC50 of 0.59 µg/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized 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:

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

Latent TGF beta 1 cDNA encodes a 390 amino acid precursor that contains a 29 aa signal peptide and a 361 aa proprotein. A furin-like convertase processes the proprotein to generate an N-terminal 249 aa latency-associated peptide (LAP) and a C-terminal 112 aa mature TGF- beta 1. Disulfide-linked homodimers of LAP and TGF- beta 1 remain non-covalently associated after secretion, forming the small latent TGF- beta 1 complex.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481