

LAP (TGF-beta 1) Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	transforming growth factor β 1;TGF β ;CED;TGFB;TGFbeta;LAP (TGF β 1);DPD1;LAP (TGFbeta 1);LAP (TGF- β 1);transforming growth factor beta 1;LAP;LAP (TGF-beta 1);TGFB1
Protein Construction:	Leu30-Arg278 (C33S)
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P01137
Molecular Weight:	31.4 kDa (Predicted); 45-50 KDa (reducing condition)
AA Sequence:	Leu30-Arg278 (C33S)

QC Testing

Biological Activity:	Immobilized Human ITGAV&ITGB6, His Tag at 2 μ g/ml (100 μ l/well) on the plate. Dose response curve for Biotinylated Human LAP (TGF beta 1) , His Tag with the EC50 of 0.11 μ g/ml determined by ELISA (QC Test).
Purity:	> 90% as determined by Bis-Tris PAGE
Endotoxin:	< 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.
Formulation:	Lyophilized from 0.22 μ m 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 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 beta (TGF β) family members are secreted in inactive complexes with a latency-associated peptide (LAP), a protein derived from the N-terminal region of the TGF β gene product. Extracellular activation of these complexes is a critical step in regulation of TGF β function in vivo. The TGF β 1 LAP is a ligand for

A DRUG SCREENING EXPERT

the integrin $\alpha\beta6$ and that $\alpha\beta6$ -expressing cells induce spatially restricted activation of TGF β 1. And LAP identifies a novel CD4+/CD25+ regulatory T cell subset with TGF β 1-mediated function and enhanced suppression of experimental autoimmune encephalomyelitis.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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