

Latent TGF beta 3 Protein, Human, Recombinant (His)

General Information

Synonyms:	TGFβ3;TGF-β3;TGF-beta3;TGFβ;TGF-β;ARVD;TGFB3;Latent TGF β3
Protein Construction:	Leu24-Ser412
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P10600-1
Molecular Weight:	45.9 kDa (predicted). Due to enzyme lysis and glycosylation, the protein migrates to 46-50 kDa and 55-60 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human Latent TGF beta 3, His Tag at 2 µg/mL (100 µL/well) on the plate. Dose response curve for Human TGF-beta RII, mFc Tag with the EC50 of 5.7 ng/mL determined by ELISA (QC Test).
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 20 mM 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-betas (TGF-βs) are multifunctional cytokines that have been implicated in the regulation of a broad range of biological processes, including cell proliferation, cell survival, and cell differentiation. And transforming growth factor beta3 (TGFbeta3) is a key protein involved in scar-free healing observed in embryos.

Reference

Okamura T, et al. Role of TGF- β 3 in the regulation of immune responses. Clin Exp Rheumatol. 2015 Jul-Aug;33(4 Suppl 92):S63-9. Epub 2015 Oct 12. PMID: 26457612.

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