

Active GMP Recombinant Human TGFB1 Protein

Cat. No. TGFB1-134HG Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TGFB1, Ala279-Ser390, was produced in CHO cell under cGMP guidelines.
Species	Human
Source	CHO
ProteinLength	279-390 a.a.
Form	Lyophilized from a 0.2 µm filtered solution in Acetonitrile and TFA.
Bio-activity	Measured by its ability to inhibit the IL-4-dependent proliferation of HT-2 mouse T cells. Tsang, M. et al. (1995) Cytokine 7:389. The specific activity of recombinant human TGF-beta 1 GMP is approximately 2.5×10^4 U/µg, which is calibrated against human TGF- beta 1 Standard (NIBSC code: 89/514).
Molecular Mass	Predicted Molecular Mass: 12.8 (monomer) kDa SDS-PAGE: 12 kDa, reducing conditions; 24 kDa, non-reducing conditions
N-terminal Sequence Analysis	Ala-Leu-Asp-Thr-Asn-Tyr-(Cys)-Phe-Ser-Ser
Endotoxin	<0.10 EU per 1 µg of the protein by the LAL method.
Purity	>97%, by SDS-PAGE with silver staining.

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Storage	<p>Avoid repeated freeze-thaw cycles.</p> <p>12 months, -20 to -70 centigrade as supplied.</p> <p>1 month, 2 to 8 centigrade under sterile conditions after reconstitution.</p> <p>3 months, -20 to -70 centigrade under sterile conditions after reconstitution.</p>
Reconstitution	Reconstitute at 100 µg/mL in 4 mM HCl.
Quality Statement	Our GMP proteins are produced according to relevant sections of the following documents: WHO TRS, No. 822, 1992 Annex 1, Good Manufacturing Practices for Biological Products; USP Chapter 1043, Ancillary Materials for Cell, Gene and Tissue-Engineered Products and USP Chapter 92, Growth Factors and Cytokines Used in Cell Therapy Manufacturing.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

GENE INFORMATION

Gene Name	TGFB1 transforming growth factor, beta 1 [Homo sapiens]
Official Symbol	TGFB1
Synonyms	TGFB1; transforming growth factor, beta 1; DPD1, TGFB; transforming growth factor beta-1; Camurati Engelmann disease; CED; TGFbeta; TGF-beta-1; TGF-beta 1 protein; LAP; DPD1; TGFB;
Gene ID	7040
mRNA Refseq	NM_000660
Protein Refseq	NP_000651

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MIM	190180
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UniProt ID	P01137
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