

Active Recombinant Human TGFB1 Protein, His-tagged

Cat. No. TGFB1-211H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TGFB1 (Gly24-His683), with a C-terminal 6-His tag was expressed in Mouse myeloma cell line.
Species	Human
Source	NS0
ProteinLength	Gly24-His683
Description	This gene encodes an RGD-containing protein that binds to type I, II and IV collagens. The RGD motif is found in many extracellular matrix proteins modulating cell adhesion and serves as a ligand recognition sequence for several integrins. This protein plays a role in cell-collagen interactions and may be involved in endochondrial bone formation in cartilage. The protein is induced by transforming growth factor-beta and acts to inhibit cell adhesion. Mutations in this gene are associated with multiple types of corneal dystrophy.
Form	Lyophilized
Bio-activity	Measured by its ability to induce adhesion of ATDC5 mouse chondrogenic cells. rh beta IG-H3, immobilized at 5 µg/mL (100 µL/well), can induce greater than 45% cell adhesion.
Molecular Mass	Predicted Molecular Mass: 73 kDa SDS-PAGE: 65-70 kDa, reducing conditions

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N-terminal Sequence Analysis	Gly24
Endotoxin	< 0.10 EU/μg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	Reconstitute at 100 μg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	TGFB1 transforming growth factor beta induced [Homo sapiens (human)]
Official Symbol	TGFB1
Synonyms	TGFB1; transforming growth factor beta induced; CSD; CDB1; CDG2; CSD1; CSD2; CSD3; EBMD; LCD1; BIGH3; CDGG1; transforming growth factor-beta-induced protein ig-h3; RGD-CAP; RGD-containing collagen-associated protein; beta ig-h3; betaig-h3; kerato-epithelin; transforming growth factor beta-induced 68kDa; transforming growth factor, beta-induced, 68kD
Gene ID	7045

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mRNA Refseq	NM_000358
Protein Refseq	NP_000349
MIM	601692
UniProt ID	Q15582

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