

Active Recombinant Human TGFB1 Protein, His & Avi-tagged, Biotinylated

Cat. No. TGFB1-363H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Human TGFB1 Protein, His & Avi-tagged, Biotinylated is expressed from human 293 cells (HEK293). It contains AA Leu 30 - Ser 390 (Accession # P01137-1 (C33S)). Predicted N-terminus: His. This protein carries a polyhistidine tag at the N-terminus, followed by an Avi tag. The protein has a calculated MW of 45.0 kDa. The protein migrates as 14 kDa, 40-48 kDa and 55-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. The biotin to protein ratio is 0.5-1 as determined by the HABA assay.

Species

Human

Source

HEK293

ProteinLength

Leu 30 - Ser 390

Form

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Bio-activity

Immobilized Human ITGAV&ITGB6, His Tag at 5 µg/mL (100 µL/well) can bind Recombinant Human TGFB1 Protein, His & Avi-tagged, Biotinylated with a linear range of 0.5-4 ng/mL (QC tested).

Immobilized Human ITGAV&ITGB8, His Tag at 5 µg/mL (100 µL/well) can bind Recombinant Human TGFB1 Protein, His & Avi-tagged, Biotinylated with a linear range of 0.2-4 ng/mL (Routinely tested).

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Molecular Mass	45.0 kDa
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>90% as determined by SDS-PAGE.
Notes	Please avoid repeated freeze-thaw cycles.
Stability	No activity loss is observed after storage at: 4-8 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.
Conjugation	Biotin

GENE INFORMATION

Gene Name	TGFB1 transforming growth factor, beta 1 [Homo sapiens]
Official Symbol	TGFB1
Synonyms	TGFB1; transforming growth factor, beta 1; DPD1, TGFB; CED; TGFbeta; TGF-beta-1; TGF-beta 1 protein; LAP; DPD1; TGFB;
Gene ID	7040

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mRNA Refseq	NM_000660
Protein Refseq	NP_000651
MIM	190180
UniProt ID	P01137

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