

## Active Recombinant Human TGFB1 Protein

Cat. No. TGFB1-014H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human TGFB1 Protein without tag was expressed in CHO cell.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>ProteinLength</b>	279-390 a.a.
<b>Bio-activity</b>	Determined by TGF-β1's ability to inhibit the mouse IL-4-dependent proliferation of mouse HT-2 cells. The expected ED50 is ≤ 0.05 ng/mL, corresponding to a specific activity of ≥ 2×10 <sup>7</sup> units/mg.
<b>AA Sequence</b>	ALDTNYCFSSTEKNCCVRQLYIDFRKDLGWKWIHEPKGYHANFCLGPCPYIWSLDT QYSKVLALYNQHNP GASAAPCCVPQALEPLEIVYYVGRKPKVEQLSNMIVRSCKCS
<b>Endotoxin</b>	<0.1 ng/μg of protein (0.1 EU/μg)
<b>Purity</b>	≥ 98% by SDS-PAGE gel and HPLC analyses.
<b>Storage</b>	Lyophilized protein remains stable before December 2022 when stored at -20 to 80 centigrade. Lyophilized protein can be stored at 4 centigrade for 6 months and room temperature for 1 month. Reconstituted protein can be stored at 2 to 8 centigrade for a week.
<b>Storage Buffer</b>	Sterile filtered through a 0.2 micron filter. Lyophilized with no additives.

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**Reconstitution**

Centrifuge vial prior to opening. Reconstitute in water to 0.1-1.0 mg/ml. Do not Vortex. Store at 2 centigrade to 8 centigrade for 1 week, or prepare for extended storage. Follow reconstitution with further dilution in a buffer containing a carrier protein (example 0.1 % BSA). Store working aliquots at -20 centigrade to -80 centigrade. Avoid repeated freeze-thaw cycles. Extended storage: -20 centigrade to -80 centigrade for 12 months.

**GENE INFORMATION**
**Gene Name**

TGFB1 transforming growth factor beta 1 [ Homo sapiens (human) ]

**Official Symbol**

TGFB1

**Synonyms**

TGFB1; transforming growth factor beta 1; CED; LAP; DPD1; TGFB; IBDIMDE; TGFbeta; TGF-beta1; transforming growth factor beta-1 proprotein; TGF-beta-1; latency-associated peptide; prepro-transforming growth factor beta-1; transforming growth factor beta1

**Gene ID**

7040

**mRNA Refseq**

NM\_000660

**Protein Refseq**

NP\_000651

**MIM**


190180

**UniProt ID**

P01137

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