

## Recombinant Human TGF-beta 1

Catalog # EPT005

**Expression Host** CHO Stable Cells

**DESCRIPTION** Recombinant Human Transforming Growth Factor

Beta 1 is produced by our Mammalian expression

system and the target gene encoding Ala279-Ser390 is

expressed.

Accession P01137

**Synonyms** Transforming Growth Factor Beta-1; TGF-Beta-1;

Latency-Associated Peptide; LAP; TGFB1; TGFB

Mol Mass 12.8 KDa

**AP Mol Mass** 13 KDa, reducing conditions

Purity Greater than 95% as determined by reducing

SDS-PAGE.

**Endotoxin** Less than 0.01 EU/μg as determined by LAL test.

**FORMULATION** Lyophilized from a 0.2 µm filtered solution of 50mM

Glycine-HCl, 150mM NaCl, pH 2.5.

**RECONSTITUTION** Always centrifuge tubes before opening.Do not mix by

vortex or pipetting.



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It is not recommended to reconstitute to a concentration less than 100µg/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**SHIPPING** 

The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

**STORAGE** 

Lyophilized protein should be stored at < -20 ° C, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at 4-7°C for 2-7 days.

Aliquots of reconstituted samples are stable at < -20° C for 3 months.

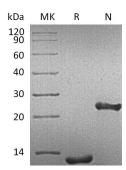
**BACKGROUND** 

Transforming Growth Factor  $\beta$  -1 (TGF  $\beta$  -1) is a secreted protein which belongs to the TGF- $\beta$  family. TGF  $\beta$  -1 is abundantly expressed in bone, articular cartilage and chondrocytes and is increased in osteoarthritis (OA). TGF  $\beta$  -1 performs many cellular functions, including the control of cell growth, cell proliferation, cell differentiation and apoptosis. The precursor is cleaved into a latency-associated peptide





(LAP) and a mature TGF $\beta$ -1 peptide. TGF $\beta$ -1 may also form heterodimers with other TGF $\beta$  family members. It has been found that TGF $\beta$ -1 is frequently upregulated in tumor cells. Mutations in this gene results in Camurati-Engelmann disease.



**SDS-PAGE** 



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