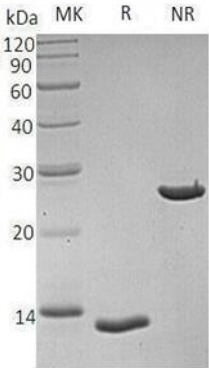


Recombinant Human TGF β -1

Catalog No: CA59

Description	Recombinant Human Transforming Growth Factor beta 1 is produced by our Mammalian expression system and the target gene encoding Ala279-Ser390 is expressed.
Source	CHO Stable Cells
Alternative name	Transforming Growth Factor Beta-1; TGF-Beta-1; Latency-Associated Peptide; LAP; TGFB1; TGFB
Accession No.	P01137
Quality Control	Purity: >95% as determined by reducing SDS-PAGE. Endotoxin: <1.0 EU per μ g
Formulation	Lyophilized from a 0.2 μ m filtered solution of 50mM Glycine 50mM NaCl pH4.0.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/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. Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Background	Transforming Growth Factor β -1 (TGF β -1) is a secreted protein which belongs to the TGF- β family. TGF β -1 is abundantly expressed in bone, articular cartilage and chondrocytes and is increased in osteoarthritis (OA). TGF β -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 β -1 peptide. TGF β -1 may also form heterodimers with other TGF β family members. It has been found that TGF β -1 is frequently upregulated in tumor cells. Mutations in this gene results in Camurati-Engelmann disease.
SDS-PAGE	 <p>R. Reducing sample NR. Non-reducing sample</p>
Bioactivity	Measured by its ability to inhibit the IL-4-dependent proliferation of TF-1 human erythroleukemic cells. The ED50 for this effect is 4-40 pg/ml.