

## 32-7784: Recombinant Human Transforming Growth Factor beta-1/TGFB1

**Gene :** TGFB1  
**Gene ID :** 7040  
**Uniprot ID :** P01137

### Description

Source: Human Cells.  
MW :12.8kD.

Recombinant Human Transforming Growth Factor beta 1 is produced by our Mammalian expression system and the target gene encoding Ala279-Ser390 is expressed. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 50mM Glycine 50mM NaCl pH4.0.  
**Storage condition :** 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.  
**Amino Acid :** ALDTNYCFSSSTEKNCCVRQLYIDFRKDLGWKWIHEPKGYHANFCLGPCPYIWSLDTQYSKVLALYNQHNP GAS  
AAPCCVPQALEPLPIVYYVGRKPKVEQLSNMIVRSCKCS

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.