

## 32-12315: Human Transforming Growth Factor-beta 1

**Gene :** TGFB1  
**Gene ID :** 7040  
**Uniprot ID :** P01137  
**Alternative Name :** Transforming growth factor beta-1, TGF-beta-1

### Description

**Source:** Genetically modified HEK 293 cells.

Å Dimer, 12.8/25.6 kDa (112/224 aa)

Transforming growth factor-beta 1 (TGF-b1) is a member of the TGF-beta superfamily of cytokines. Members of this family exhibit regulatory activity in immunity, proliferation, adhesion, migration, and growth inhibition pathways. TGF-b1 signals through SMAD proteins via the TGF-bRI and TGF-bRII receptors.

### Product Info

**Amount :** 20 µg / 100 µg  
**Purification :** Reducing and Non-Reducing SDS PAGE at  $\geq 95\%$   
**Content :** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1 % trifluoroacetic acid (TFA) and Trehalose in a 20:1 Trehalose to protein ratio  
Sterile 10 mM HCl at 0.1 mg/mL  
**Storage condition :** Store at -20°C  
**Amino Acid :** ALDTNYCFSS TEKNCCVRQL YIDFRKDLGW KWIHEPKGYH ANFCLGPCPY IWSLDTQYSK VLALYNQHNP GASAAPCCVP QALEPLPIVY YVGRKPKVEQ LSNMIVRSCK CS

### Application Note

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

Biological Activity was determined by Inhibition of IL-4-induced HT-2 cell proliferation at  $\leq 500$  pg/mL;  $\geq 2.0 \times 10^6$  units/mg. Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80Å°C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vialled to compensate for this loss.



