

DESCRIPTION

Recombinant Human Transforming Growth Factor β-1/TGFβ-1 is produced by our mammalian cells expression system in HEK293 cells. The target protein is expressed with sequence (Leu30-Ser390) of Human TGFB1 fused with a polyhistidine tag at the C-terminus.

Synonyms : TGFB

Accession # P01137

FORMULATION

Lyophilized from a 0.2 μM filtered solution of

SHIPPING

The product is shipped at ambient temperature.

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

RECONSTITUTION

Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

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

Dissolve the lyophilized protein in 1X PBS.

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

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.

QUALITY CONTROL

Purity: > 95% as determined by SEC-HPLC and reducing SDS-PAGE

Endotoxin: < 0.1ng/μg (1IEU/μg)

BACKGROUND

Transforming Growth Factor β-1 (TGFβ-1) is a secreted protein which belongs to the TGF-β family. TGFβ-1 is abundantly expressed in bone, articular cartilage and chondrocytes and is increased in osteoarthritis (OA). TGFβ-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 TGFβ-1 peptide. TGFβ-1 may also form heterodimers with other TGFβ family members. It has been found that TGFβ-1 is frequently upregulated in tumor cells. Mutations in this gene results in Camurati-Engelmann disease.