



Recombinant Protein Technical Manual

Recombinant Human TGFB1/TGF-beta 1 Protein (His Tag)

RPES4241

Product Data:

Product SKU: RPES4241

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P01137

Protein Information:

Molecular Mass: 41.3&12.8 kDa

AP Molecular Mass: 38-55 kDa

Tag: N-His

Bio-activity:

Purity: > 95% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

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.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 50mM Glycine, 50mM NaCl, pH4.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Transforming Growth Factor Beta; TGF-Beta; Latency-Associated Peptide; LAP; TGFB1; TGFB;CED;DPD1;TGF-beta 1

Immunogen Information:

Sequence: Leu30-Ser390(Cys33Ser)

Background:

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