

Recombinant Human TGFB1/TGF-beta 1 Protein (Active)

Catalog No. PKSH032007

•	4.0
Descri	ntian
DUSCII	

Synonyms Transforming Growth Factor Beta-1, TGF-Beta-1, Latency-Associated Peptide,

LAP, TGFB1, TGFB, CED, DPD1, TGF-beta 1

Species Human

Expression_host CHO Stable Cells
Sequence Ala279-Ser390

 Accession
 P01137

 Mol_Mass
 12.8 kDa

 AP_Mol_Mass
 13 kDa

 Tag
 None

Bio_activity 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

Properties

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

Endotoxin < 0.01 EU per μ g of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°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, 150mM NaCl,

pH2.5.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed

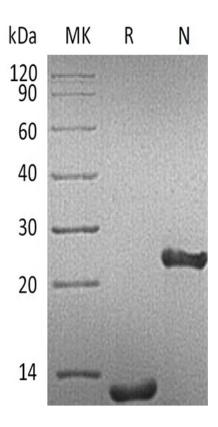
Reconstitution Please refer to the printed manual for detailed information.

Background

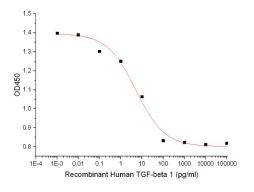
Transforming Growth Factor β -1 (TGF β -1) is a secreted protein which belongs to the TGF- β family. TGF β -1 is abundantly expressed in bone; articular cartilage and chondrocytes and is increased in osteoarthritis (OA). TGF β -1 performs many cellular functions; including the control of cell growth; 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.

Elabscience®

SDS-PAGE



Bioactivity



Measured by its ability to inhibit the IL-4-dependent proliferation of TF-1 cells. The ED50 for this effect is 4-40 pg/ml.