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Product Datasheet

Recombinant Human TGF-beta 1 EBT-EPT005

Article Name	Recombinant Human TGF-beta 1
Biozol Catalog Number	EBT-EPT005
Supplier Catalog Number	EPT005
Alternative Catalog Number	EBT-EPT005-10
Manufacturer	ELK Biotechnology
Category	Proteine/Peptide
Product Description	Recombinant Human Transforming Growth Factor Beta 1 is produced by our Mammalian expression system and the target gene encoding Ala279-Ser390 is expressed....
Molecular Weight	Molecular weight: 12.8 KDa. Apparent molecular weight: 13 KDa, reducing conditions
UniProt	P01137
Purity	Greater than 95% as determined by reducing SDS-PAGE.

Application Notes

Redissolve: 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 distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.. Endotoxin: Less than 0.01 EU/µg as determined by LAL test. Biological 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.. Background: Transforming Growth Factor beta-1 (TGFbeta-1) is a secreted protein which belongs to the TGF-beta family. TGFbeta-1 is abundantly expressed in bone, articular cartilage and chondrocytes and is increased in osteoarthritis (OA). TGFbeta-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 TGFbeta-1 peptide. TGFbeta-1 may also form heterodimers with other TGFbeta family members. It has been found that TGFbeta-1 is frequently upregulated in tumor cells. Mutations in this gene results in Camurati-Engelmann disease