Product Name: Recombinant Human Latent TGF Beta-1&GARP Complex Protein (N-6His, C-3*Strep)
Catalog #: PHH2379

Summary

Name	Latent TGF Beta-1&GARP Complex Protein
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Latent TGF Beta-1&GARP Complex Protein is produced by our Mammalian expressionsystem and the target gene encoding Leu30-Ser390&His20-Asn627 is expressed with a 6His tag at the N-terminusand, a 3*Strep tag at the C-terminus.
Accession #	P01137&Q14392
Host	Human Cells
Species	Human
Predicted Molecular Mass	42.1&71.0 KDa
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, 5%Trehalose, 5% Mannitol, 0.05% Tween 80, pH 7.4.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
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 distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.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.

SDS-PAGE image

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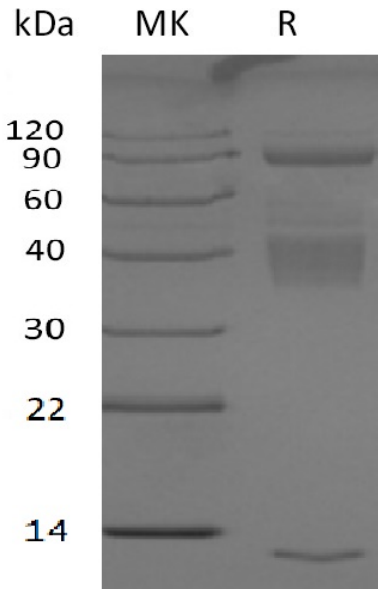

Alternative Names
TGF Beta-1&GARP

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. Leucine Rich Repeat Containing 32 (LRRC32), also known as Glycoprotein A Repetitions Predominant (GARP), has been postulated as a novel surface marker of activated T(regs). LRRC32 binds directly to the TGF-beta latency associated peptide (LAP) and tethers latent TGF-beta on the surface of activated Treg cells. The presentation of TGF-beta on Tregs contributes to their ability to suppress naïve T cell proliferation.

Note
For Research Use Only , Not for Diagnostic Use.