

Rev02
 Update: Aug,08,2025
DATASHEET

GARP&Latent TGF Beta 1 Complex, His & Avi, Human

Cat. No.: Z05331

Product Introduction

Species	Human
Protein Construction	<div style="display: flex; align-items: center; justify-content: space-between;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> GARP & Latent TGF Beta 1 Complex [His20-Leu628 (GARP) & Leu30-Ser390 (Latent TGF beta 1)] Accession # Q14392 (GARP) & P01137 (Latent TGF beta 1) </div> <div style="background-color: #90c090; padding: 5px; text-align: center;">His</div> <div style="background-color: #4f81bd; padding: 5px; text-align: center;">Avi</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> N-term C-term </div>
Purity	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized GARP&Latent TGF Beta 1 Complex, His & Avi, Human at 5µg/ml (100µl/well) on the plate can bind AntiGARP&TGF beta 1 Antibody, hFc Tag. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	70.3 kDa (GARP)&41.4 kDa (Latent TGF beta 1)
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 72-80 kDa (GARP)&13 kDa&42-50 kDa (Latent TGF beta 1) based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage & Stability	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

Background

Target Background : GARP&Latent TGF Beta is a complex found on surface of many types of cells. In Tregs, GARP is involved in TCR-mediated activation of Latent TGF-β and thus promoting secretion and activation of TGF-β. Integrin αβ8 on the surface of immune cells and other cells recognizes RGD in LAP, resulting in the release of mature TGF-β from the TGF-β&GARP complex.

Synonyms : LRRC32; GARP; LAP; TGF-beta-1; LRRC32&TGF-beta 1; LRRC32&TGFB1; TGF-β-1; LRRC32&TGF-β 1; GARP&Latent TGF Beta; GARP&Latent TGF Beta 1

For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.

Manufacturer: Nanjing GenScript Biotech Co., Ltd. No. 28Yongxi Road, Jiangning District, Nanjing, Jiangsu, China