

Rev02
 Update: Aug,08,2025
DATASHEET

GARP (Y137H) & Latent TGF Beta 1 Complex, His & Avi, Human

Cat. No.: Z05330

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 (Y137H) & Latent TGF Beta 1 Complex [His20-Leu628 (GARP (Y137H)) and Leu30-Ser390 (Latent TGF Beta 1)] Accession # Q14392 (GARP (Y137H)) & 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> <p style="text-align: center; margin-top: 5px;">N-term C-term</p>
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 (Y137H) & Latent TGF Beta 1 Complex, His & Avi, Human at 5µg/ml (100µl/well) on the plate can bind Anti - GARP&Latent TGF Beta 1 Antibody, hFc Tag. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	70.3 kDa (GARP(Y137H)) and 41.4 kDa (Latent TGF Beta 1)
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 71-75 kDa (GARP(Y137H)), 13 kDa and 42-45 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 αvβ8 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

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