

Rev03  
 Update: Aug,08,2025
**DATASHEET**

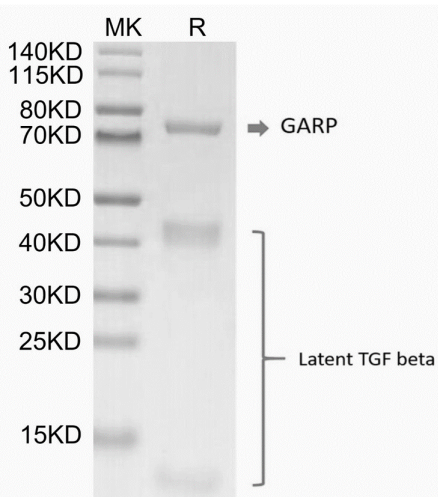
# GARP&Latent TGF beta 1 Complex[Biotin], His & Avi, Cynomolgus

Cat. No.: Z04365

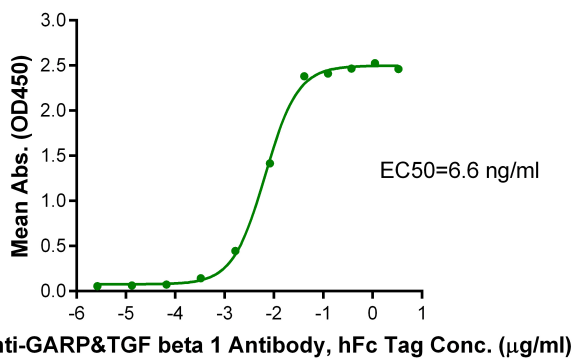
## Product Introduction

<b>Species</b>	Cynomolgus
<b>Protein Construction</b>	<div style="display: flex; align-items: center; justify-content: space-between;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> <b>GARP &amp; Latent TGF beta 1 Complex [Ala18-Leu628 (GARP) &amp; Leu30-Ser390 (Latent TGF beta 1)]</b>  <b>Accession # A0A2K5X2X9 (GARP) &amp; A0A2K5TJB2 (Latent TGF beta 1)</b> </div> <div style="background-color: #90c17e; 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 <span style="float: right;">C-term</span></p>
<b>Conjugate</b>	Biotin
<b>Purity</b>	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
<b>Endotoxin Level</b>	Less than 1EU per µg by the LAL method.
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized GARP&Latent TGF beta 1 Complex[Biotin], His & Avi, Cynomolgus at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml) can bind AntiGARP&TGF beta 1 Antibody, hFc Tag. Test result was comparable to standard batch.
<b>Expression System</b>	HEK293
<b>Theoretical Molecular Weight</b>	70.5 kDa (GARP)&41.3 kDa (Latent TGF Beta 1)
<b>Apparent Molecular Weight</b>	Due to glycosylation, the protein migrates to 70-80 kDa (GARP)&13 kDa&42-50 kDa (Latent TGF Beta) based on Bis-Tris PAGE result.
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage &amp; Stability</b>	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.

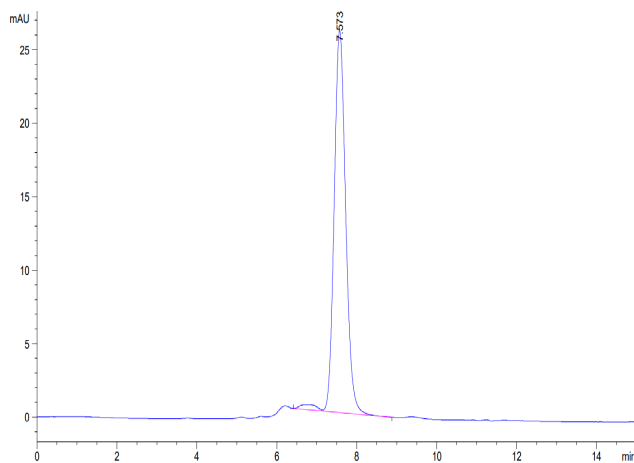
## Examples



GARP&Latent TGF beta 1 Complex[Biotin], His & Avi, Cynomolgus on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



Immobilized GARP&Latent TGF beta 1 Complex[Biotin], His & Avi, Cynomolgus, His Tag at 2 µg/ml (100 µl/well) on the streptavidin precoated plate(5 µg/ml). Dose response curve for Anti-GARP&TGF beta 1 Antibody, hFc Tag with the EC50 of 6.6 ng/ml determined by ELISA.



The purity of GARP&Latent TGF beta 1 Complex[Biotin], His & Avi, Cynomolgus is greater than 90% as determined by SEC-HPLC.

## 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- $\beta$  and thus promoting secretion and activation of TGF- $\beta$ . Integrin  $\alpha\beta 8$  on the surface of immune cells and other cells recognizes RGD in LAP, resulting in the release of mature TGF- $\beta$  from the TGF- $\beta$ &GARP complex.

**Synonyms :** LRRC32; GARP; LAP; TGF-beta-1; LRRC32&TGF-beta 1; LRRC32&TGFB1; TGF- $\beta$ -1; LRRC32&TGF- $\beta$  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.**

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