

Biotinylated Cynomolgus CTLA4 Protein; His-Avi Tag

Product Information

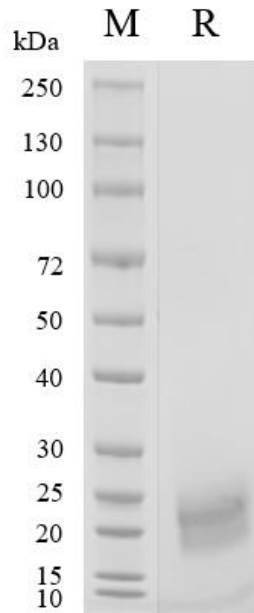
Product Name	Biotinylated Cynomolgus CTLA4 Protein; His-Avi Tag
Storage temp.	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-87556RP-25 / 25 μg GM-87556RP-200 / 200 μg

Protein Information

Alternative Names	CTLA-4,CD152
Source	Biotinylated Cynomolgus CTLA4 Protein; His-Avi Tag (GM-87556RP) is expressed from human 293 cells (HEK-293). It contains AA Ala 37 - Ser 160 (Accession # G7PL88-1). This protein carries a His-Avi tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	16.2 KDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.4.
Description	<p>CTLA-4 (Cytotoxic T-lymphocyte-associated protein 4) is a protein receptor that plays a crucial role as an immune checkpoint in regulating immune responses. It is expressed on the surface of T cells and helps regulate the immune system to prevent it from attacking healthy cells. CTLA-4 is essential for maintaining immune homeostasis and preventing autoimmune diseases.</p> <p>CTLA-4 inhibits T cell activation by competitively binding to B7 molecules (CD80 and CD86). It is rapidly expressed in the early stages of T cell activation and inhibits T cell activation and proliferation by suppressing co-stimulatory signals. This inhibitory function helps to prevent excessive immune responses and the development of autoimmune diseases.</p> <p>CTLA-4 is of significant importance in immunotherapy as inhibiting CTLA-4 can enhance immune responses and improve anti-tumor immune responses. Anti-CTLA-4 antibodies have been used in the treatment of various tumors such as melanoma. A deep understanding of the CTLA-4 protein and its function aids in the development of new immunotherapy strategies to enhance treatment outcomes for diseases like cancer.</p>

Version:3.3

SDS-PAGE

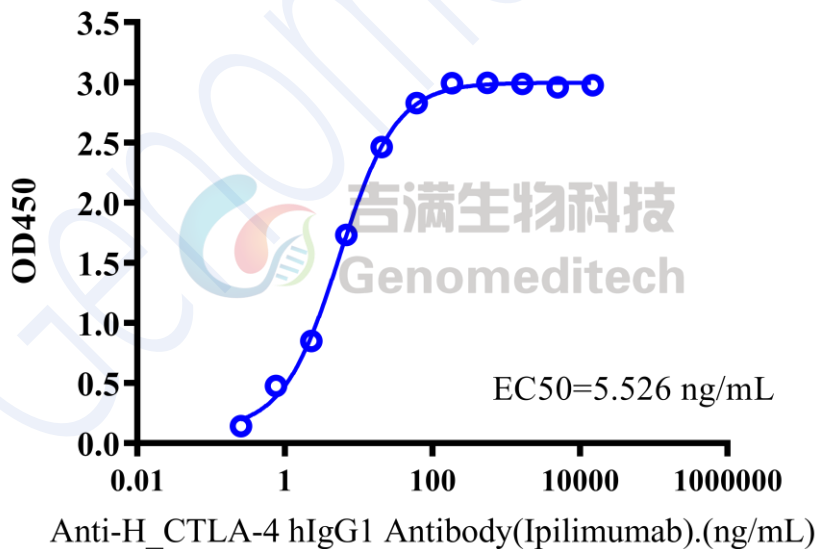


On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

Bioactivity-ELISA

0.1 μg Biotinylated Cynomolgus CTLA4 Protein; His-Avi Tag of per well



Biotinylated Cynomolgus CTLA4 Protein; His-Avi Tag (Catalog # GM-87556RP) was immobilized at 1 $\mu\text{g}/\text{ml}$ (100 $\mu\text{L}/\text{well}$) on streptavidin precoated. Increasing concentrations of Anti-H_CTLA-4 hIgG1 Antibody (Ipilimumab) (Catalog # GM-27203AB) were added.