

Human CTLA4 Protein; His Tag

Product Information

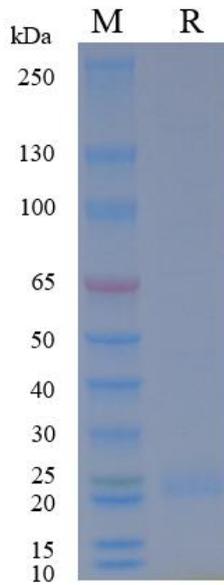
Product Name	Human CTLA4 Protein; His Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-87552RP-100 / 100 μg GM-87552RP-1000 / 1 mg

Protein Information

Alternative Names	CTLA-4, CD152
Source	Human CTLA4 Protein; His Tag (GM-87552RP) is expressed from human 293 cells (HEK-293). It contains AA Ala 37 - Phe 162 (Accession # P16410-1). This protein carries a His tag at the C-terminus.
Purity	> 90% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	14.3 KDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
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 significant 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>

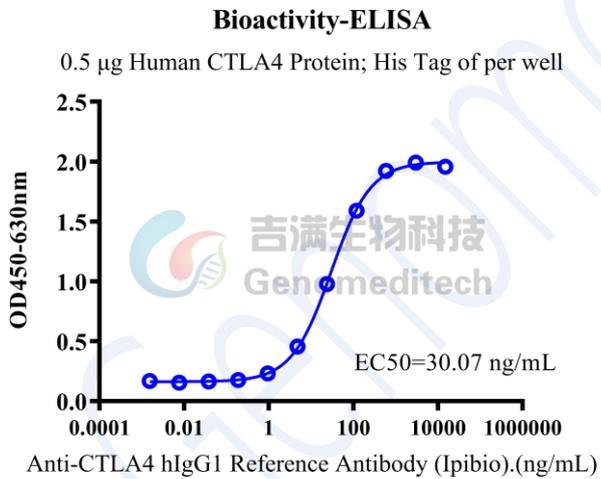
Version:4.0

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 90%.

Bioactivity-ELISA



Human CTLA4 Protein; His Tag (Catalog # GM-87552RP) was immobilized at 5 μ g/ml (100 μ L/well). Increasing concentrations of Anti-CTLA4 hIgG1 Reference Antibody (Ipibio) (Catalog # GM-87801MAB) were added.