Human CTLA-4/CD152 Protein

Cat. No. CTL-HM241



Description	
Source	Recombinant Human CTLA-4/CD152 Protein is expressed from HEK293 with hFc tag at the C-Terminus.
	It contains Lys36-Asp161.
Accession	P16410-1
Molecular Weight	The protein has a predicted MW of 40.1 kDa. Due to glycosylation, the protein migrates to 50-55 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

Formulation and Storage

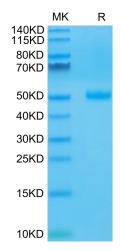
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μ g/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

CTLA-4 (cytotoxic T-lymphocyte-associated protein 4), also known as CD152, is a protein receptor that, functioning as an immune checkpoint, downregulates immune responses.CTLA4 is constitutively expressed in regulatory T cells but only upregulated in conventional T cells after activation – a phenomenon which is particularly notable in cancers. It acts as an "off" switch when bound to CD80 or CD86 on the surface of antigenpresenting cells.

Assay Data

Tris-Bis PAGE



Human CTLA-4 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

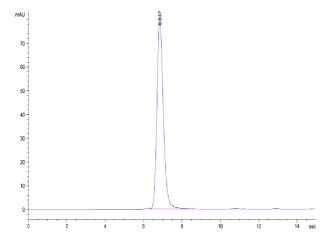
SEC-HPLC

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Assay Data



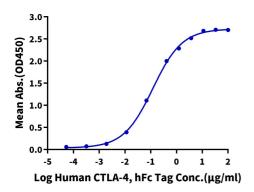
The purity of Human CTLA-4 is greater than 95% as determined by SEC-HPLC.

KAGTUS

Assay Data

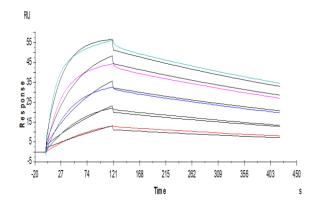
ELISA Data

Human CTLA-4, hFc Tag ELISA 0.05μg Human B7-2, His Tag Per Well



Immobilized Human B7-2, His Tag at $0.5\mu g/ml$ (100 $\mu l/Well$) on the plate. Dose response curve for Human CTLA-4, hFc Tag with the EC50 of $0.12\mu g/ml$ determined by ELISA (QC Test).

SPR Data



Human B7-1, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human CTLA-4, hFc Tag with an affinity constant of 1.1nM as determined in SPR assay (Biacore T200).