# Human CTLA-4/CD152 Protein

#### Cat. No. CTL-HM241

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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 Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC
Formulation and St	orage
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months 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 antigen-presenting cells.

### Assay Data

#### **Bis-Tris PAGE**



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

SEC-HPLC

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

KVCJUS



Human CTLA-4, hFc Tag ELISA





Immobilized Human B7-1, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human CTLA-4, hFc Tag with the EC50 of 3.0ng/ml determined by ELISA (QC Test).

#### ELISA Data

**Assay 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 $\mu$ I/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.





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).