#### 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 Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

#### Formulation and Storage

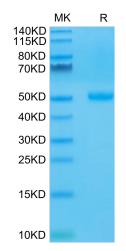
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 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 antigenpresenting cells.

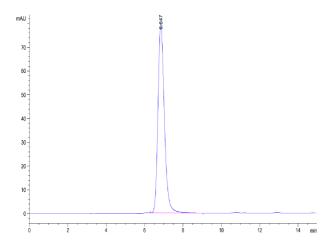
#### **Assay Data**

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



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

### SEC-HPLC



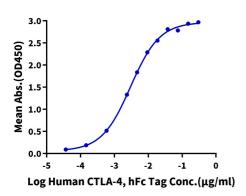
The purity of Human CTLA-4 is greater than 95% as determined by SEC-HPLC.

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#### **Assay Data**

#### **ELISA Data**

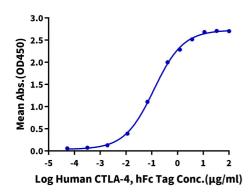
# Human CTLA-4, hFc Tag ELISA 0.1µg Human B7-1, His Tag Per Well



Immobilized Human B7-1, His Tag at  $1\mu$ g/ml (100 $\mu$ l/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).

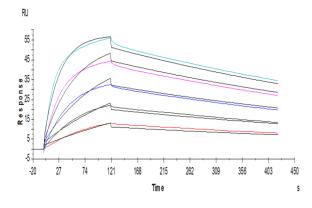
#### **ELISA Data**

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



Immobilized Human B7-2, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human CTLA-4, hFc Tag with the EC50 of 0.12µg/ml determined by ELISA.

#### **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).