

<b>Product Name</b>	Recombinant Human CTLA4	SDS-PAGE gel
<b>Synonym(s)</b>	ALPS5; CD; CD152; CELIAC3; CTLA-4; GRD4; GSE; IDDM12	1 2
<b>Quantity</b>	50 µg, 1 mg	kDa M
<b>Species</b>	Human	116
<b>Class Type</b>	Recombinant Protein	66.2
<b>Molecular weight</b>	46-55 kDa (due to glycosylation), 40.7 kDa (predicted)	45.0
<b>Purity</b>	≥ 95% by SDS-PAGE, ≥ 95% by SEC-HPLC	35.0
<b>Tag</b>	C-terminal Human IgG1 Fc tag	25.0
<b>Expression Source</b>	HEK293	18.4
<b>GenBank Accession #</b>	NP_005205.2, Met1-Phe162	14.4
<b>Application</b>	Western Blotting, Functional Studies	
<b>Endotoxin</b>	<1.0 EU/µg protein as determined by the LAL method.	
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4.	
<b>Storage and Stability</b>	Stable for 12 months at -80°C, Avoid freeze/thaw cycles	1 – MW Marker 2 – CTLA4
<b>Description</b>	Cytotoxic T-lymphocyte protein 4, also known as CTLA4 and CD152, is a single-pass type I membrane protein and a member of the immunoglobulin superfamily. It is the second member of the CD28 receptor family. The ligands or counterreceptors for these two proteins are the B7 family members, CD8 (B7-1) and CD86 (B7-2). CTLA4 transmits an inhibitory signal to T cells, whereas CD28 transmits a stimulatory signal. Intracellular CTLA4 is also found in regulatory T cells and may play an important role in their functions. CD152 or cytotoxic T lymphocyte antigen-4 (CTLA-4) is an essential receptor involved in the negative regulation of T cell activation. Because of its profound inhibitory role, CD152 has been considered a sound susceptible candidate in autoimmunity and a persuasive target for cancer immunotherapy. In particular, recent evidence suggests that CD152 is also important in the homeostasis and function of a population of suppressive cells, termed regulatory T cells (Treg).	
<b>Reference</b>	Slavik JM, et al. (1999) CD28/CTLA-4 and CD80/CD86 families: signaling and function. <i>Immunol Res.</i> 19(1): 1-24. Holmberg D, et al. (2005) CTLA-4 (CD152) and its involvement in autoimmune disease. <i>Autoimmunity.</i> 38(3): 225-33. Chin LT, et al. (2008) Immune intervention with monoclonal antibodies targeting CD152 (CTLA-4) for autoimmune and malignant diseases. <i>Chang Gung Med J.</i> 31(1): 1-15.	

**Related products:**

<b>Product Name</b>	<b>Catalog #</b>	<b>Size</b>
Recombinant Human PD-L1	237351	100 ug
Recombinant Human CD40	232340	100 ug
Recombinant Human CD40L	2323405	100 ug

Recombinant Human CD70	232370	100 ug
Recombinant Human CD155	2323155	100 ug
Recombinant Human SIRP-alpha	2374772	100 ug
Recombinant Human OX40	236940	100 ug
Recombinant Human OX40L	2369405	100 ug
DNA Polymerase Theta Activity Assay Kit	362101	96 reactions
DNA Polymerase Theta-N-Helicase Domain	7657643	20 ug, 100 ug
DNA Polymerase Theta-C terminal Domain	7657283	20 ug, 100 ug, 1 mg
DNA Polymerase Theta Full Length protein	7657385	10 ug, 50 ug
T7 RNA polymerase	777627	5000 U, 25000U, 100000U
T7 High Yield RNA Synthesis Kit	777627-RK	25 rxns, 50 rxns, 100 rxns
Recombinant Mouse Leukemia Inhibitory Factor (mLIF)	11-0001	10 ug, 100 ug
Recombinant Human LIF	12-0002	10 ug, 100 ug, 1 mg
Recombinant Human LIF, Animal-Free	12-0002AFR	10 ug, 100 ug, 1 mg
Recombinant Human FGF-basic, Carrier-free	12-0005CFR	50 ug, 100 ug, 500 ug, 1 mg
Kras Wild Type (WT), GST-tag	5727-4121G	50 µg, 100 µg
Kras WT, GST-tag, GDP Loaded	5727-WTG-G	50 µg, 100 µg
Kras WT, GST-tag, GppNHp loaded	5727-WTG-GP	50 µg, 100 µg
Kras G12C, GST-tag	5727-4122G	50 µg, 100 µg
Kras G12C, GST-tag, GDP Loaded	5727-4122G -G	50 µg, 100 µg
Kras G12C, GST-tag, GppNHp loaded	5727-4122G -GP	50 µg, 100 µg
Kras G12C Nucleotide Exchange Assay Kit	5727-4122NK	384 reactions
Kras G12C - cRAF Binding Assay Kit	5727-4122BK	384 reactions
Human RBD-RAF1, N-His tag, C-FLAG tag	7237231	50 µg, 100 µg
Human SOS1, No Tag	7671	50 µg, 100 µg
Human SOS1, His-Avi-Tag	7671HA	50 µg, 100 µg

This product is for research use only and not for diagnostic or therapeutic use.