

Recombinant Protein Technical Manual Recombinant Rat CTLA-4/CD152 Protein (ECD, His Tag) RPES1677

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Product SKU: RPES1677

Size: 100µg

Species: Rat

Expression host: HEK293 Cells

Uniprot: NP_113862.1

Protein Information:						
Molecular Mass:	15.2 kDa					
AP Molecular Mass:						
Tag:	C-His					
Bio-activity:						
Purity:	> 95 % as determined by SDS-PAGE					
Endotoxin:	< 1.0 EU per μg protein as determined by the LAL method.					
Storage:	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.					
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.					
Formulation:	Lyophilized from sterile PBS, pH 7.4					
Reconstitution:	Please refer to the printed manual for detailed information.					
Application:						
Synonyms:	CTLA-4					

Sequence: Met1-Asp161

Background:

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, CD80 (B7) 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).