CTLA4
Recombinant Human CTLA-4/CD152:Fc Chimera

Catalog No.	CRH030	**Quantity:**	100 µg

Alternate Names: ALPS5, CD, CD152, CELIAC3, CTLA-4, GRD4, GSE, IDDM12

Description: CD152 [CTLA-4] and CD28, together with their ligands B7-1 and B7-2, constitute one of the dominant costimulatory pathways that regulate T and B cell responses. CD152 and CD28 are structurally homologous molecules that are members of the immunoglobulin (Ig) gene superfamily. Both CD152 and CD28 are composed of a single Ig V-like extracellular domain, a transmembrane domain and an intracellular domain. CD152 and CD28 are both expressed on the cell surface as disulfide-linked homodimers or as monomers. CD152 was originally identified as a gene that was specifically expressed by cytotoxic T lymphocytes. However, CD152 transcripts have since been found in both Th1 and Th2, and CD4+ and CD8+ T cell clones. Whereas, CD28 expression is constitutive on the surfaces of 95% of CD4+ T cells and 50% of CD8+ T cells and is down regulated upon T cell activation, CD152 expression is upregulated rapidly following T cell activation and peaks approximately 24 hours following activation. Although both CD152 and CD28 can bind to the same ligands, CD152 binds to B71 and B72 with 20-100-fold higher affinity than CD28.

The extracellular domain of human CD152 [CTLA-4] (aa 37-160) is fused to the N-terminus of the Fc region of human IgG1.

Gene ID: 1493

Protein Accession No: NP_005205.2

Source: CHO cells

Formulation: Lyophilized from a 0.2 µm filtered solution containing PBS.

Purity: ≥98% (SDS-PAGE)

Endotoxin Level: <0.06 EU/µg purified protein as determined by LAL test (Lonza).

Biological Activity: Binds both CD80 (B7-1) and CD86 (B7-2) with high affinity and inhibits CD28 signaling competitively. Kills the target cell completely.

Reconstitution: Reconstitute with 100 µl (1 mg/ml) sterile water. Add 1X PBS to the desired protein concentration.

Storage & Stability: Store at 4°C upon arrival and at -20°C for long term. Lyophilized product is stable for at least 1 year after receipt when stored at -20°C. After reconstitution, prepare aliquots and store at -20°C. Stable for up to 3 month at -20°C. **Avoid repeated freeze-thaw cycles.**

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