

ICOSLG

Recombinant Human B7-H2/CD275:Fc Chimera Non-Lytic

Catalog No.	CRH039	Quantity:	100 µg
Alternate Names:	B7-H2, B7H2, B7RP-1, B7RP1, CD275, GL50, ICOS-L, ICOSL, LICOS		
Description:	<p>Human B7-H2 is a member of the growing B7 family of immune costimulatory proteins. Other family members include B7-1, B7-2, B7-H1 (PD-L1), PD-L2 and B7-H3. B7 proteins are members of the immunoglobulin (Ig) superfamily, the extracellular domains contain 2 Ig-like domains and all members have short cytoplasmic domains. B7-H2 has been identified as the ligand for ICOS, a member of the CD28 family of costimulatory receptors. Human B7-H2 is expressed constitutively on resting B cells, dendritic cells and at low levels on monocytes. The B7-H2/ICOS interaction appears to play roles in T cell dependent B cell activation and Th differentiation.</p> <p>The extracellular domain of human CD275 [B7-H2] (aa 1-256) is fused to the N-terminus of the Fc region of a mutant human IgG1.</p> <p>The chimera is non-lytic and acts as a long lasting fusion protein that only binds to the receptor. Mutations to the complement (C1q) and FcγR I binding sites of the IgGs Fc fragment render the fusion proteins incapable of antibody directed cytotoxicity (ADCC) and complement directed cytotoxicity (CDC).</p>		
Gene ID:	23308		
Protein Accession No:	NP_056074.1		
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:	Measured by its ability to stimulate human T cell proliferation in the presence of anti-CD3.		
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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