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ICOSLG
Recombinant Human ICOS Ligand / B7-H2 / CD275 (His Tag)

Catalog No.	CRH638A-His CRH638B-His	**Quantity:**	100 µg 200 µg
Alternate Names:	ICOS ligand, B7 homolog 2, B7-H2, B7-like protein Gl50, B7-related protein 1, B7RP-1, CD275		
Description:	Inducible co-stimulator ligand (ICOSL), also known as B7-H2, is a member of the B7 family of co-stimulatory molecules related to B7-1 and B7-2. It is a transmembrane glycoprotein with extracellular IgV and IgC domains, and binds to ICOS on activated T cells, thus delivers a positive costimulatory signal for optimal T cell function. The structural features of ICOSL are crucial for its costimulatory function. Present study shows that ICOSL displays a marked oligomerization potential, resembling more like B7 -1 than B7-2. B7-H2-dependent signaling may play an active role in a proliferative response rather than in cytokine and chemokine production. The CD28/B7 and ICOS/B7-H2 pathways are both critical for costimulating T cell immune responses. Deficiency in either pathway results in defective T cell activation, cytokine production and germinal center formation.		
UniProt ID:	O75144		
Accession Number:	NP_056074.1		
Protein Construction:	A DNA sequence encoding the human ICOSLG extracellular domain (Met 1-Ser 258) was fused with a polyhistidine tag at the C-terminus.		
Source:	HEK293 Cells		
Formulation:	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Molecular Weight:	The secreted recombinant human ICOSLG consists of 251 amino acids with a predicted MW of 28 kDa and migrates at ~50-60 kDa in SDS-PAGE under reducing conditions.		
Purity:	> 98 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method		
Biological Activity:	In a functional ELISA, immobilized human B7-H2 at 1 µg/ml (100 µl/well) can bind human ICOS with a linear range of 1.6-200 ng/ml.		
Predicted N-terminal:	Asp 19		
Reconstitution:	**Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. **DO NOT VORTEX**. Allow several minutes for complete reconstitution.		
Storage & Stability:	Stable for up to 1 year from date of receipt at -20°C to -80°C After reconstitution, store working aliquots at -20°C to -80°C. **Avoid repeated freeze-thaw cycles.**		

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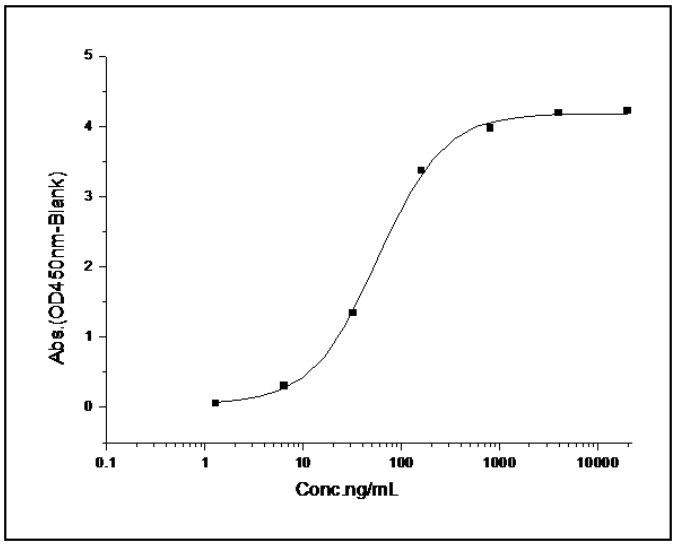
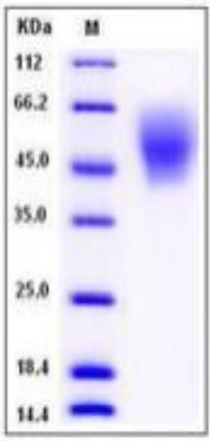
Measured by its binding ability in a functional ELISA. Immobilized human human B7-H2 at 1 µg/ml (100 µl/well) can bind human ICOS with a linear range of 1.6 -200 ng/ml.



SDS-PAGE



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