Recombinant Mouse ICOS Ligand/ICOSL Protein (His & Fc Tag)

Catalog Number:PKSM040816

Note: Centrifuge before opening to ensure complete recovery of vial contents.

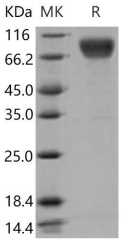
Description

Synonyms	Icosl;AU044799;B7-H2;B7RP-1;B7h;BG071784;GI50;GL50;GL50-B;ICOS-L;KIAA0653;LICOS;Ly115l;Mkiaa0653
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Met 1-Lys 279
Accession	NP_056605.1
Calculated Molecular Weight	54.3 kDa
Observed molecular weight	75-85 kDa
Tag	C-His-Fc
Bioactivity	Immobilized human ICOS at 1 μg/ml (100 μl/well) can bind biotinylated mouse B7-H2 Fc chimera with a linear range of 0.125-1.0 μg/ml.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

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.

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