Recombinant Human ICOS/AILIM Protein (His &Fc Tag)

Catalog Number: PKSH031664

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

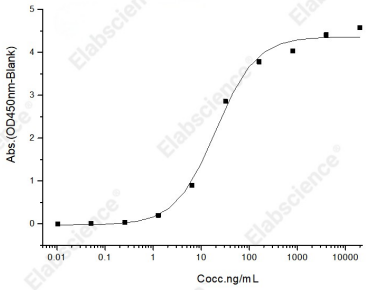
Description

Species	Human
Source	HEK293 Cells-derived Human ICOS/AILIM protein Met 1-Phe 141, with an C-terminal His & Fc
Calculated MW	41.6 kDa
Observed MW	50 kDa
Accession	NP_036224.1
Bio-activity	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.

Properties

Purity	> 90 % 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°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 20mM Tris, 150mM Nacl, pH 8.5.
Reconstitution	Please refer to the printed manual for detailed information.

Data



Immobilized Recombinant Human ICOS Ligand / B7-H2 / ICOSLG Protein (Fc Tag)(Cat: PKSH031086) at 2 μg/ml (100 μl/well) can bind Recombinant Human ICOS / AILIM / CD278 Protein (His &Fc Tag)(Cat: PKSH031664),The EC_{50} is 8-30 ng/mL.

Background

Inducible costimulator (ICOS), also called AILIM (activiation-inducible lymphocyte immunomediatory molecule) is a cell-surface receptor, and belongs to the CD28 family of immune costimulatory receptors consisting of CD28, CTLA-4 and PD-1. The interaction of B7-H2/ICOS plays a critical role in Th cell differentiation, T−B cell interactions which is essential for germinal center formation, and humoral immune responses, and as well as the production of cytokine IL-4. In addition, ICOS is more potent in the induction of IL-10 production, a cytokine important for suppressive function of T regulatory cells. The B7-1/B7-2--CD28/CTLA-4 and ICOS-B7RP-1 pathway provides key second signals that can regulate the activation, inhibition and fine-tuning of T-lymphocyte responses. ICOS stimulates both Th1 and Th2 cytokine production but may have a preferential role in Th2 cell development. Moreover, The B7-1/B7-2-CD28/ CTLA-4 and ICOS-B7RP-1 pathway has been suggested of being involved in the development of airway inflammation and airway hyperresponsiveness.

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