

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

Product Data:

Product SKU: RPES4104 Size: 50

RPES4104

Species: Human

Expression host: HEK293 Cells

Uniprot: NP_036224.1

Protein Information					
	Drot	ain	Intori	nation	
		CIII		IIGUIU	

Molecular Mass:	41.6 kDa
AP Molecular Mass:	50 kDa
Tag:	C-His & Fc
Bio-activity:	Measured by its binding ability in a functional ELISA. Immobilized human human B7-H2 at 1 μ g/ml (100 μ l/well) can bind human ICOS with a linear range of 1.6-200 ng/ml.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per μg as determined by the LAL method.
Storage:	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 PBS, pH 7.4
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	Functional ELISA
Synonyms:	Inducible T-cell costimulator;activation-inducible lymphocyte immunomediatory molecule; CD278; AILIM; CVID1;ICOS;

Sequence: Met 1-Phe 141

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. 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 ILO production, a cytokine important for suppressive function of T regulatory cells. The B7/B7-2--CD28/CTLA-4 and ICOS-B7RP 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/B7-2-CD28/CTLA-4 and ICOS-B7RP pathway has been suggested of being involved in the development of airway inflammation and airway hyperresponsiveness.