CREATIVE BIOMART®
Immune Checkpoints

Recombinant Human ICOS protein, C-hFc Tag

Product Information

Cat	*IMP-419*
Official Symbol	*ICOS*
Product Overview	*Recombinant Human ICOS protein (NP_036224.1) (Met1-Phe141) was expressed in HEK293, fused with the Fc region of human IgG1 at the C-terminus.*
Description	*Inducible costimulator (ICOS), also called AILIM (Activation-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 are essential for the germinal center formation, and humoral immune responses, and as well as the production of cytokine IL-4. Also, ICOS is more potent in the induction of IL-10 production, a cytokine important for the suppressive function of T regulatory cells. The B7-1/B7-2--CD28/CTLA-4 and ICOS-B7RP-1 pathway provide 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 as being involved in the development of airway inflammation and airway hyperresponsiveness.*
Expression System	*HEK293*
Species	*Human*
Tag	*C-hFc Tag*
Predicted N Terminal	*Glu 21*
Form	*Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.*
Molecular Mass	*The recombinant human ICOS consists of 359 amino acids and predicts a molecular mass of 40.5 kDa.*
Protein length	*Met1-Phe141*
Endotoxin	*< 1.0 EU per μg protein as determined by the LAL method.*
Purity	*> 95 % as determined by SDS-PAGE.*
Storage	*Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is*

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recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

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