

# Recombinant Human ICOS Protein, Gly/Pro-tagged, FITC conjugated

Cat. No. ICOS-390HF Lot. No. (See product label)

## SPECIFICATION

**Product Overview** FITC conjugated recombinant human ICOS (Met 1-Phe 141) was expressed in HEK293.

**Species** Human

**Source** HEK293

**ProteinLength** Met1-Phe141

### 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 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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<b>Form</b>	Lyophilized
<b>N-terminal Sequence Analysis</b>	Glu 21
<b>Endotoxin</b>	< 1.0 EU/ µg of the protein as determined by the LAL method.
<b>Purity</b>	> 94 % as determined by SDS-PAGE
<b>Characteristic</b>	<p>Disulfide-linked homodimer</p> <p>Labeled with FITC via amines</p> <p>Excitation source: 488 nm spectral line, argon-ion laser</p> <p>Excitation Wavelength: 488 nm</p> <p>Emission Wavelength: 535 nm</p>
<b>Stability</b>	Samples are stable for up to 12 months from date of receipt at -70 centigrade.
<b>Storage</b>	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Storage Buffer</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose and mannitol are added as protectants before lyophilization.
<b>Shipping</b>	<p>Shipped at ambient temperature.</p> <p>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.</p>
<b>Conjugation</b>	FITC

## GENE INFORMATION

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<b>Gene Name</b>	ICOS inducible T-cell co-stimulator [ Homo sapiens ]
<b>Official Symbol</b>	ICOS
<b>Synonyms</b>	ICOS; inducible T-cell co-stimulator; inducible T-cell costimulator; activation inducible lymphocyte immunomediatory molecule; AILIM; CD278; inducible costimulator; activation-inducible lymphocyte immunomediatory molecule; CVID1; MGC39850;
<b>Gene ID</b>	29851
<b>mRNA Refseq</b>	NM_012092
<b>Protein Refseq</b>	NP_036224
<b>MIM</b>	604558
<b>UniProt ID</b>	Q9Y6W8

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