

# Recombinant Human ICOS/AILIM Protein (Fc Tag)

Catalog Number:PKSH033644



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

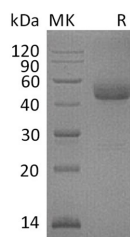
## Description

<b>Synonyms</b>	Inducible T-cell costimulator;activation-inducible lymphocyte immunomediatory molecule;CD278;AILIM;CVID1;ICOS;
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Glu21-Phe141
<b>Accession</b>	Q9Y6W8
<b>Calculated Molecular Weight</b>	40.9 kDa
<b>Observed molecular weight</b>	47 kDa
<b>Tag</b>	C-Fc

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 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.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Inducible T-cell costimulator, also known as activation-inducible lymphocyte immunomediatory molecule, CD278, AILIM, CVID1 and ICOS, belongs to the CD28 and CTLA4 cell surface receptor family.. ICOS contains one Ig-like V-type domain and exists as a homodimer with disulfide-linked. ICOS is highly expressed on tonsillar T-cells and can be induced by PMA and ionomycin, ICOS plays an important role in cell-cell signaling, immune responses, and regulation of cell proliferation. Defects in ICOS are the cause of immunodeficiency common variable type 1, which is a primary immunodeficiency characterized by antibody deficiency, hypogammaglobulinemia, recurrent bacterial infections and an inability to mount an antibody response to antigen.

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