



## Synonym

ICOS,CD278,AILIM,Inducible T-cell costimulator

## Source

Human ICOS, Fc Tag(ICS-H5258) is expressed from human 293 cells (HEK293). It contains AA Glu 21 - Phe 141 (Accession # [Q9Y6W8-1](#)).

Predicted N-terminus: Glu 21

## Molecular Characterization

ICOS(Glu 21 - Phe 141) Q9Y6W8-1	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 40.2 kDa. The protein migrates as 46-55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in

Tris with Glycine, Arginine and NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

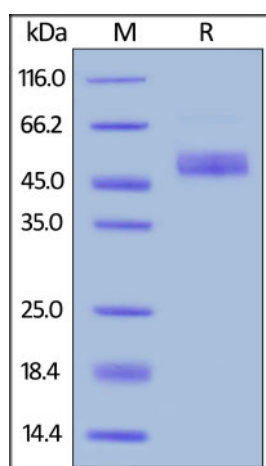
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE

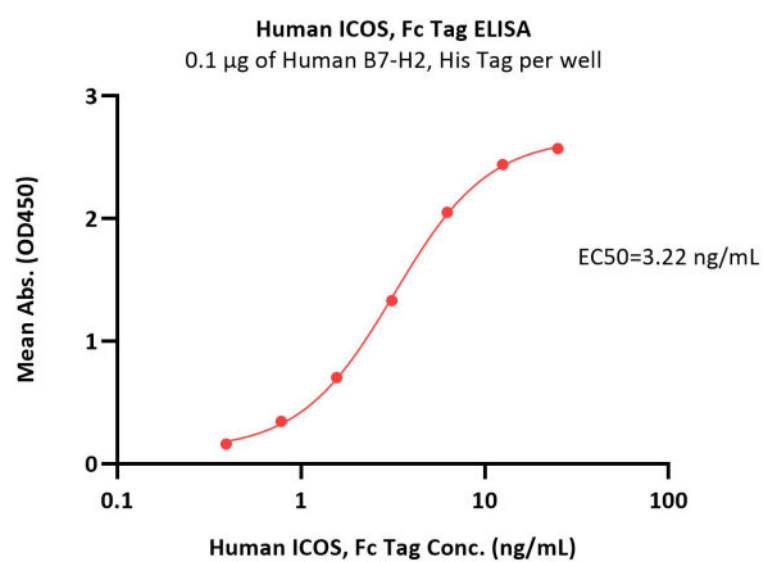


Human ICOS, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-ELISA

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Immobilized Human B7-H2, His Tag (Cat. No. B72-H5221) at 1 µg/mL (100 µL/well) can bind Human ICOS, Fc Tag (Cat. No. ICS-H5258) with a linear range of 0.4-6 ng/mL (QC tested).

## Background

Inducible T-cell costimulator (ICOS) is also known as Activation-inducible lymphocyte immunomediatory molecule (AILIM), CD278, which belongs to the CD28 family of immune costimulatory receptors consisting of CD28, CTLA-4 and PD-1. ICOS enhances all basic T-cell responses to a foreign antigen, namely proliferation, secretion of lymphokines, up-regulation of molecules that mediate cell-cell interaction, and effective help for antibody secretion by B-cells. CD278 / ICOS prevents the apoptosis of pre-activated T-cells and also plays a critical role in CD40-mediated class switching of immunoglobulin isotypes.

## Clinical and Translational Updates

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