



### Synonym

ICOS,CD278,AILIM,Inducible T-cell costimulator

### Source

Human ICOS Protein, His Tag(ICS-H52Ha) is expressed from human 293 cells (HEK293). It contains AA Glu 21 - Phe 141 (Accession # [Q9Y6W8-1](#) (C136S,C137S)).

### Molecular Characterization

The protein has a calculated MW of 19.1 kDa. The protein migrates as 25-33 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

### Endotoxin

Less than 1.0 EU per µg by the LAL method.

### Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

### Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 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

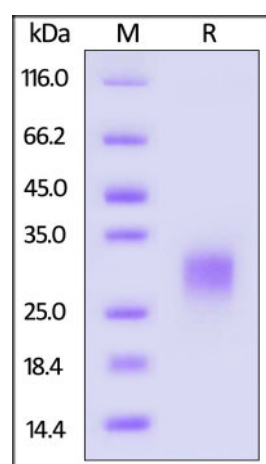
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

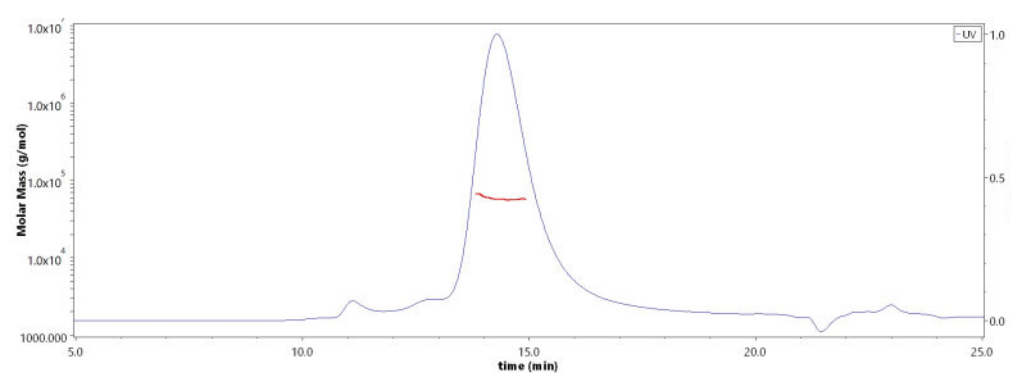
### SDS-PAGE



Human ICOS Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

### Bioactivity-ELISA

### SEC-MALS

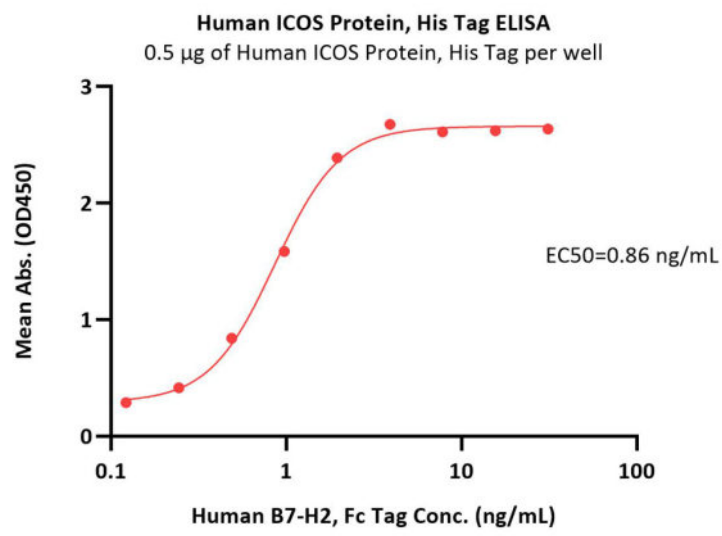


The purity of Human ICOS Protein, His Tag (Cat. No. ICS-H52Ha) is more than 90% and the molecular weight of this protein is around 52-62 kDa verified by SEC-MALS.

[Report](#)

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Immobilized Human ICOS Protein, His Tag (Cat. No. ICS-H52Ha) at 5 µg/mL (100 µL/well) can bind Human B7-H2, Fc Tag (Cat. No. B72-H5254) with a linear range of 0.1-2 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

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.

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