



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 28-33 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) 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

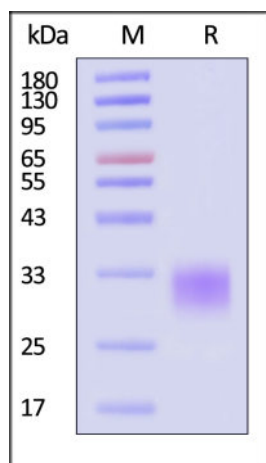
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

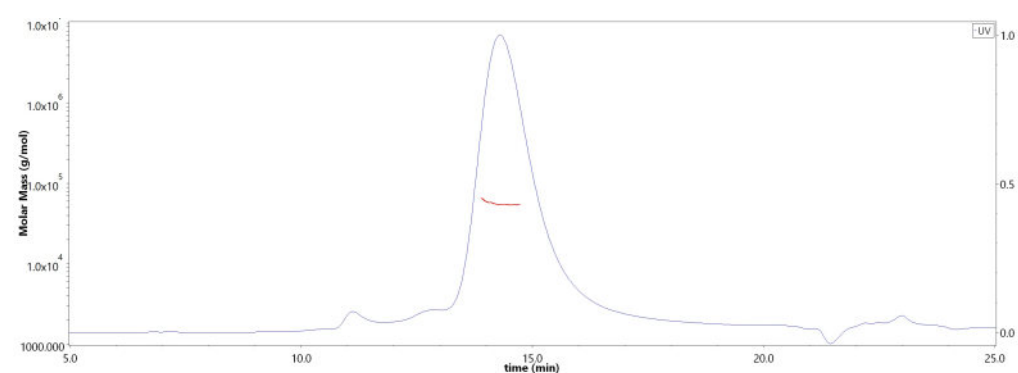
SDS-PAGE



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% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA

SEC-MALS

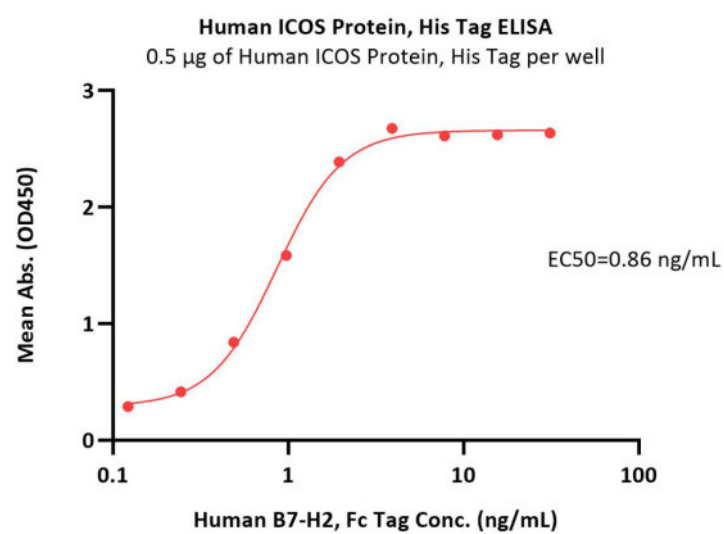


The purity of Human ICOS Protein, His Tag (Cat. No. ICS-H52Ha) is more than 90% and the molecular weight of this protein is around 52-62 kDa verified by SEC-MALS.

[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

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