



Synonym

ICOS,CD278,AILIM,Inducible T-cell costimulator

Source

Biotinylated Human ICOS (C136S, C137S) Protein, His,Avitag(ICS-H82E5) is expressed from human 293 cells (HEK293). It contains AA Glu 21 - Phe 141 (Accession # [Q9Y6W8-1](#) (C136S, C137S)).

Predicted N-terminus: Glu 21

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 17.4 kDa. The protein migrates as 25-32 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

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

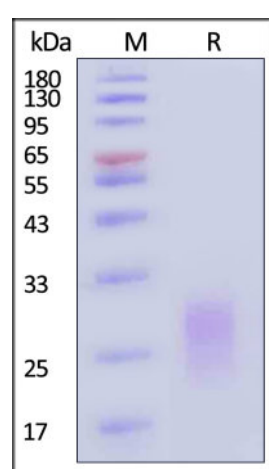
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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



Biotinylated Human ICOS (C136S, C137S) Protein, His,Avitag 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

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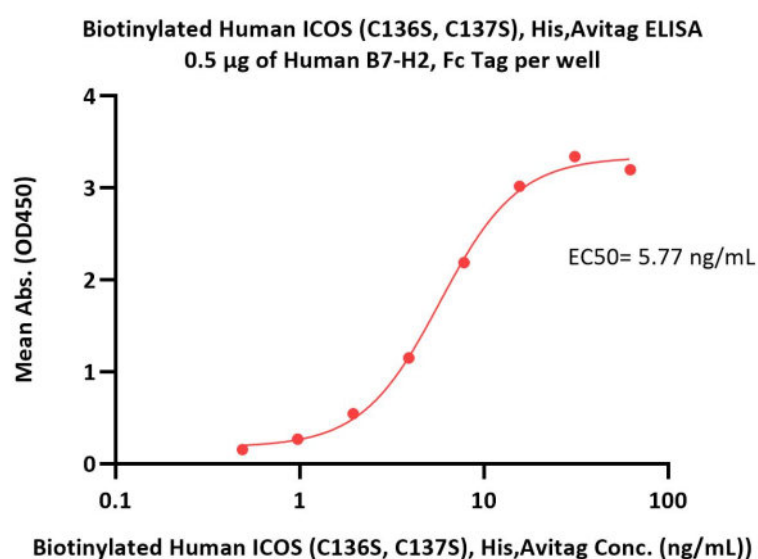


Biotinylated Human ICOS / CD278 (C136S, C137S) Protein, His,Avitag™ (recommended for biopanning)

Catalog # ICS-H82E5



BIOSYSTEMS
Acro



Immobilized Human B7-H2 Protein, Fc Tag (Cat. No. B72-H5254) at 5 µg/mL (100 µL/well) can bind Biotinylated Human ICOS (C136S, C137S) Protein, His,Avitag (Cat. No. ICS-H82E5) with a linear range of 2-78 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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