

For Research Use Only

Recombinant Human ICOS/CD278 protein (hFc Tag, Myc Tag, His Tag)

Catalog Number: Eg0043



Basic Information

Species:
Human

EC50:
6-24 ng/mL

Purity:
>90 %, SDS-PAGE

Tag:
hFc Tag, Myc Tag, His Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Human ICOS protein Glu21-Lys140 (Accession# Q9Y6W8) with a human IgG1 Fc tag, a Myc tag, a His tag at the C-terminus.

GenelD:
29851

Accession:
Q9Y6W8

Predicted Molecular Mass:
42.1 kDa

SDS-PAGE:
50-60 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Immobilized Human ICOSLG (Myc tag, His tag) at 0.5 μg/mL (100 μL/well) can bind Human ICOS (hFc tag, Myc tag, His tag) with a linear range of 6-24 ng/mL.

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Inducible T-cell costimulator (ICOS) is an activation-dependent, T cell-specific cell surface molecule related to CD28 and CTLA-4. 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. ICOS has to be de novo induced on the T-cell surface, does not upregulate the production of interleukin-2, but superinduces the synthesis of interleukin-10, a B-cell-differentiation factor. ICOS activated T-cells, Highly expressed on tonsillar T-cells, are closely associated with B-cells in the apical light zone of germinal centers, the site of terminal B-cell maturation. It is expressed at lower levels in thymus, lung, lymph node, and peripheral blood leukocytes. It is also expressed in the medulla of the fetal and newborn thymus.

References

1. Beier KC, et al. (2000). Eur J Immunol. 30(12):3707-17.
2. Hutloff A, et al. (1999). Nature. 397(6716):263-266.
3. Tezuka K, et al. (2000). Biochem Biophys Res Commun. 276(1):335-345.

Synonyms

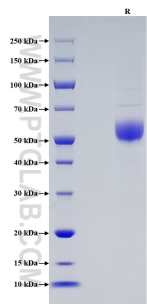
ICOS, Activation-inducible lymphocyte immunomediatory molecule, AILIM, CD278, CVID1

For technical support and original validation data for this product please contact

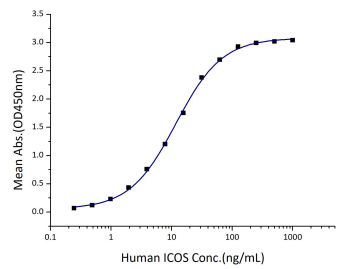
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Purity of Recombinant Human ICOS was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.



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