

This product is still under development. Please contact us if you have interest in this product. We will accelerate the development process accordingly and reserve this product for you as request.

**Synonym**

ICOS,CD278,AILIM,Inducible T-cell costimulator

**Source**

Human ICOS, Fc Tag (ICS-H5250) is expressed from human 293 cells (HEK293). It contains AA Glu 21 - Phe 141 (Accession # NP\_036224).

Predicted N-terminus: Glu 21

**Molecular Characterization**

ICOS(Glu 21 - Phe 141) NP_036224	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 40.4 kDa. The protein migrates as 45-50 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>50% human ICOS (Fc Tag) and 50% human IgG1 Fc.

**Formulation**

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.

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.*

No activity loss was observed after storage at:

- 4-8°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**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.

**References**

- (1) [Hutloff A., et al., 1999, Nature 397:263-266.](#)
- (2) [Tezuka K., et al., 2000, Biochem. Biophys. Res. Commun. 276:335-345.](#)
- (3) [Beier K.C., et al., 2000, Eur. J. Immunol. 30:3707-3717.](#)

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