Human ICOS/CD278 Protein

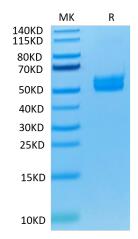
Cat. No. ICO-HM201

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Description	
Source	Recombinant Human ICOS/CD278 Protein is expressed from HEK293 with hFc tag at the C-Terminus.
	It contains Glu21-Phe141.
Accession	Q9Y6W8-1
Molecular Weight	The protein has a predicted MW of 40.5 kDa. Due to glycosylation, the protein migrates to 52-60 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 90% as determined by HPLC
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Background	
	Inducible co-stimulator (ICOS), also called AILIM (activiation-inducible lymphocyte immunomediatory molecule) and CRP-1 (CD28-related protein-1), is a member of the growing CD28 family of immune costimulatory receptors. Other family members are CD28, CTLA-4 and PD-1. Human ICOS is a homodimeric type I transmembrane protein consisting of 199 amino acids (aa) with a putative 20 aa signal sequence, a 121 aa extracellular domain, a 23 aa transmembrane region, and a 35 aa cytoplasmic domain.

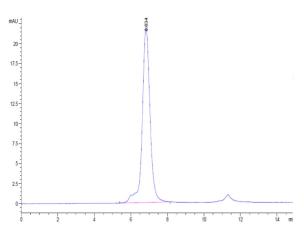
Assay Data

Bis-Tris PAGE



Human ICOS on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human ICOS is greater than 90% as determined by SEC-HPLC.

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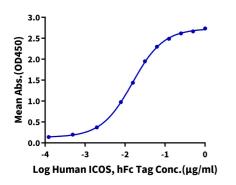
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Assay Data

ELISA Data

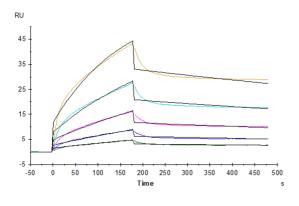
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Human ICOS, hFc Tag ELISA 0.1µg Human B7-H2, His Tag Per Well



Immobilized Human B7-H2, His Tag at 1μ g/ml (100 μ l/Well) on the plate. Dose response curve for Human ICOS, hFc Tag with the EC50 of 15.2ng/ml determined by ELISA (QC Test).





Human ICOS, hFc Tag captured on CM5 Chip via Protein A can bind Cynomolgus B7-H2, His Tag with an affinity constant of 5.42 nM as determined in SPR assay (Biacore T200).