

Datasheet for ABIN7274838

ICOS Protein (Cys136Ser-Mutant, Cys137Ser-Mutant) (His tag)



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3 Images

Overview

Quantity:	100 µg
Target:	ICOS
Protein Characteristics:	Cys136Ser-Mutant, Cys137Ser-Mutant
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ICOS protein is labelled with His tag.

Product Details

Purpose:	Human ICOS/CD278 (C136S, C137S) Protein
Sequence:	Glu21-Phe141 (C136S,C137S)
Characteristics:	Recombinant Human ICOS/CD278(C136S, C137S) Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Glu21-Phe141(C136S,C137S).
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human ICOS (C136S,C137S) , His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human B7-H2, hFc Tag with the EC50 of 9.4ng/ml determined by ELISA. The affinity constant of 40.2nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

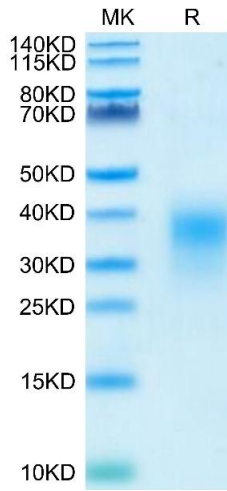
Target:	ICOS
Alternative Name:	ICOS (ICOS Products)
Background:	Inducible co-stimulator (ICOS), also called AILIM (activation-inducible lymphocyte immunomediatory molecule) and CRP-1 (CD28-related protein-1), is a member of the growing CD28 family of immune costimulatory receptors. Other family members 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.
Molecular Weight:	14.8 kDa. Due to glycosylation, the protein migrates to 35-40 kDa based on Tris-Bis PAGE result.
Pathways:	Cancer Immune Checkpoints

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

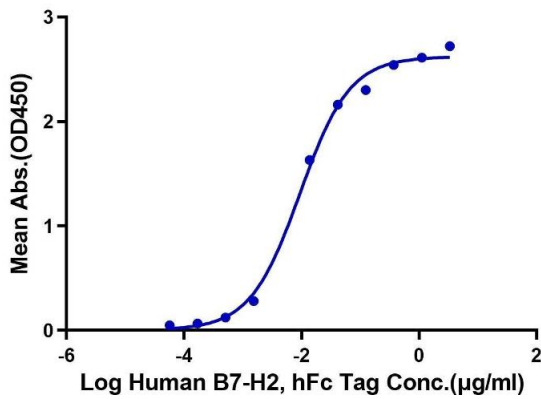


SDS-PAGE

Image 1. Human ICOS (C136S,C137S) on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

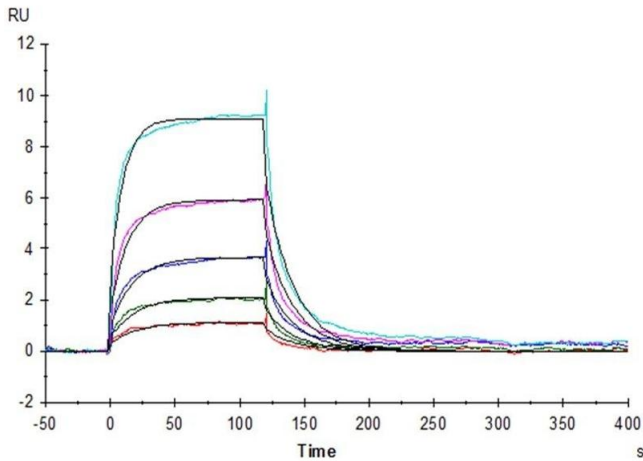
Human ICOS(C136S,C137S), His Tag ELISA

0.05µg Human ICOS(C136S,C137S), His Tag Per Well



ELISA

Image 2. Immobilized Human ICOS (C136S,C137S), His Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Human B7-H2, hFc Tag with the EC50 of 9.4 ng/mL determined by ELISA.



Surface Plasmon Resonance

Image 3. Human B7-H2, hFc Tag captured on Protein A chip, can bind Human ICOS(C136S,C137S), His Tag with an affinity constant of 40.2nM as determined in a SPR assay (Biacore T200).