

Datasheet for ABIN7274842
ICOS Protein (AA 21-144) (Fc Tag)

3 Images

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Overview

Quantity:	100 µg
Target:	ICOS
Protein Characteristics:	AA 21-144
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ICOS protein is labelled with Fc Tag.

Product Details

Purpose:	Mouse ICOS/CD278 Protein
Sequence:	Glu21-Leu144
Characteristics:	Recombinant Mouse ICOS/CD278 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Glu21-Leu144.
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:	The affinity constant of 0.329 µM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

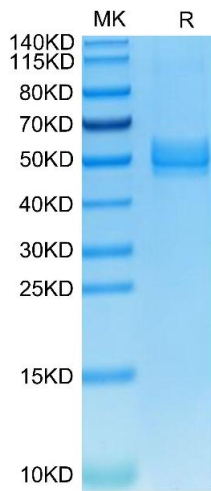
Target:	ICOS
Alternative Name:	ICOS (ICOS Products)
Background:	Inducible co-stimulator (ICOS), also called AILIM (activation-inducible lymphocyte immunomediatory molecule) and CRP-1 (CD28-related protein-1), is a member of the growing CD28 family of immune costimulatory receptors. Other family members 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:	40.8 kDa. Due to glycosylation, the protein migrates to 65-80 kDa based on Tris-Bis PAGE result.
Pathways:	Cancer Immune Checkpoints

Application Details

Restrictions:	For Research Use only
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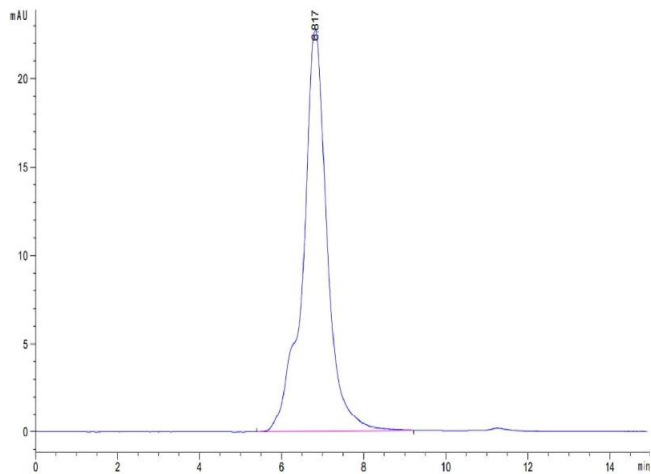
Handling

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



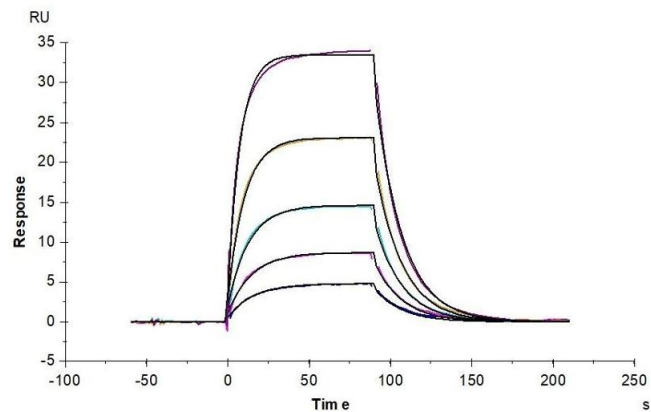
SDS-PAGE

Image 1. Mouse ICOS on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Mouse ICOS is greater than 95 % as determined by SEC-HPLC.



Surface Plasmon Resonance

Image 3. Mouse ICOS, hFc Tag captured on CM5 Chip via Protein A can bind Mouse B7-H2, His Tag with an affinity constant of 0.329 μ M as determined in SPR assay (Biacore T200).