

Datasheet for ABIN7274840  
**ICOS Protein (AA 21-141) (Fc Tag)**

## 3 Images

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## Overview

Quantity:	100 µg
Target:	ICOS
Protein Characteristics:	AA 21-141
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ICOS protein is labelled with Fc Tag.

## Product Details

Purpose:	Human ICOS/CD278 (Q50A) Protein
Sequence:	Glu21-Phe141
Characteristics:	Recombinant Human ICOS/CD278 (Q50A) Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Glu21-Phe141.
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 25.59 nM as determined in SPR assay (Biacore T200). See testing image for detail.

## Target Details

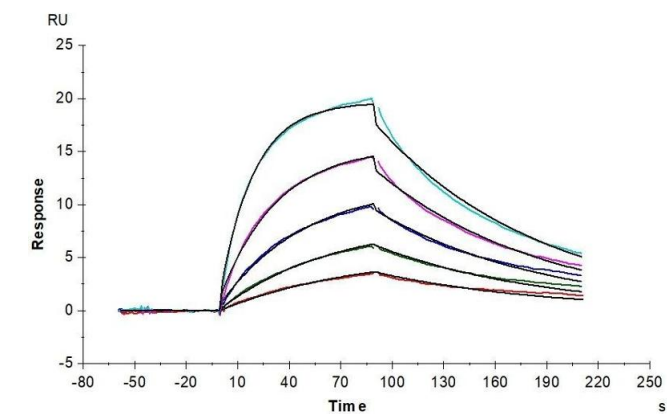
Target:	ICOS
Alternative Name:	ICOS ( <a href="#">ICOS Products</a> )
Background:	Inducible co-stimulator (ICOS), also called AILIM (activation-inducible lymphocyte immunomediatory molecule) and CRP-1 (CD28-related protein-1), is a member of the growing CD28 family of immune costimulatory receptors. 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:	40.45 kDa. Due to glycosylation, the protein migrates to 55-65 kDa based on Tris-Bis PAGE result.
Pathways:	<a href="#">Cancer Immune Checkpoints</a>

## Application Details

Restrictions:	For Research Use only
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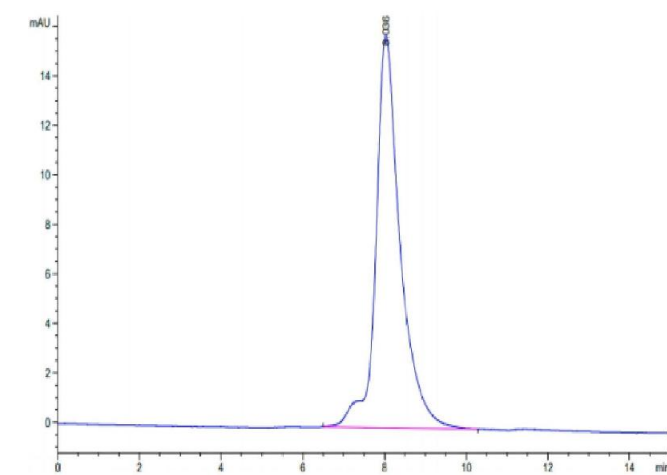
## Handling

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



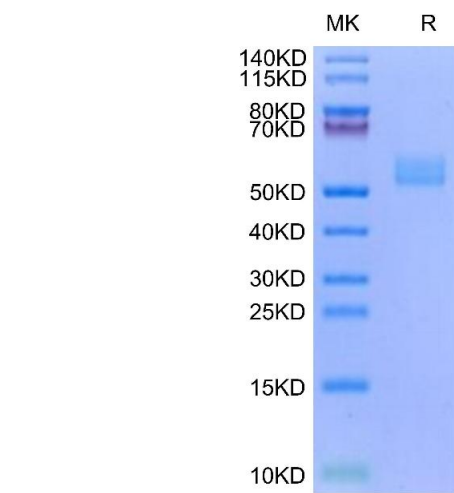
Surface Plasmon Resonance

**Image 1.** Human ICOS (Q50A) , hFc Tag captured on CM5 Chip via Protein A can bind Human B7-H2, His Tag with an affinity constant of 25.59 nM as determined in SPR assay (Biacore T200).



Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 2.** The purity of Human ICOS (Q50A) is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

**Image 3.** Human ICOS (Q50A) on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .