

# Human ICOS/CD278 Protein

Cat. No. ICO-HM101

## Description

<b>Source</b>	Recombinant Human ICOS/CD278 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Glu21-Gln134.
<b>Accession</b>	Q9Y6W8-1
<b>Molecular Weight</b>	The protein has a predicted MW of 14.6 kDa. Due to glycosylation, the protein migrates to 25-35 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 90% as determined by Bis-Tris PAGE > 90% as determined by HPLC

## Formulation and Storage

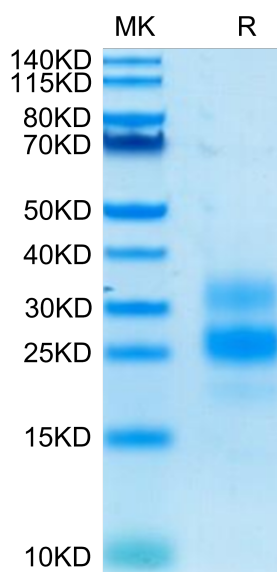
<b>Formulation</b>	Supplied as 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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.

## Assay Data

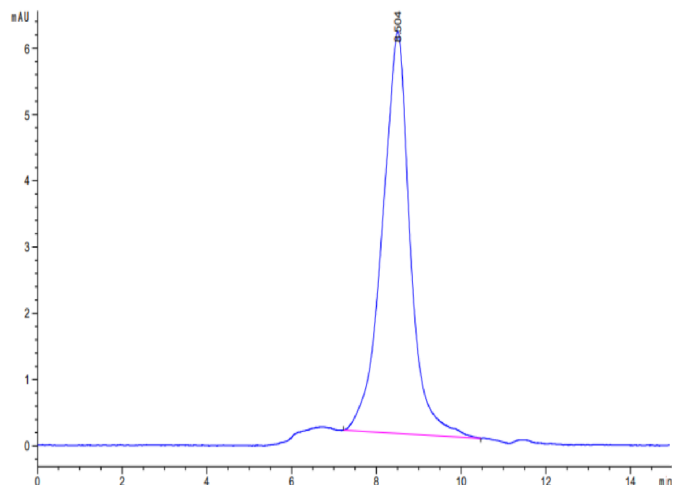
### Bis-Tris PAGE



Human ICOS on Bis-Tris PAGE under reduced condition. The purity is greater than 90%.

### SEC-HPLC

Assay Data

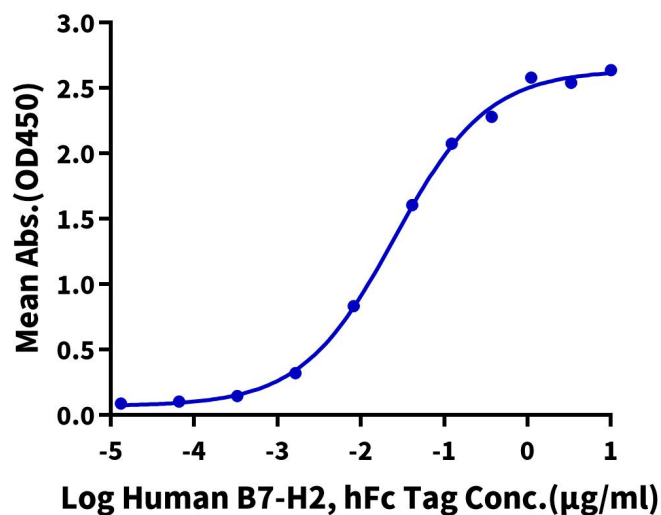


The purity of Human ICOS is greater than 90% as determined by SEC-HPLC.

ELISA Data

**Human ICOS, His Tag ELISA**

0.05µg Human ICOS, His Tag Per Well



Immobilized Human ICOS, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human B7-H2, hFc Tag with the EC50 of 25.3ng/ml determined by ELISA.