

Human ICOS/CD278 Protein



Cat. No. ICO-HM101

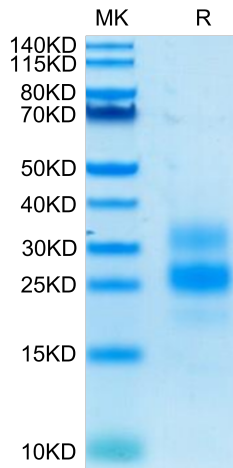
Description	
Source	Recombinant Human ICOS/CD278 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Glu21-Gln134.
Accession	Q9Y6W8-1
Molecular Weight	The protein has a predicted MW of 14.6 kDa. Due to glycosylation, the protein migrates to 25-35 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage	
Formulation	Supplied as 0.22µm filtered solution in PBS (pH 7.4).
Storage	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 ALIM (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.	

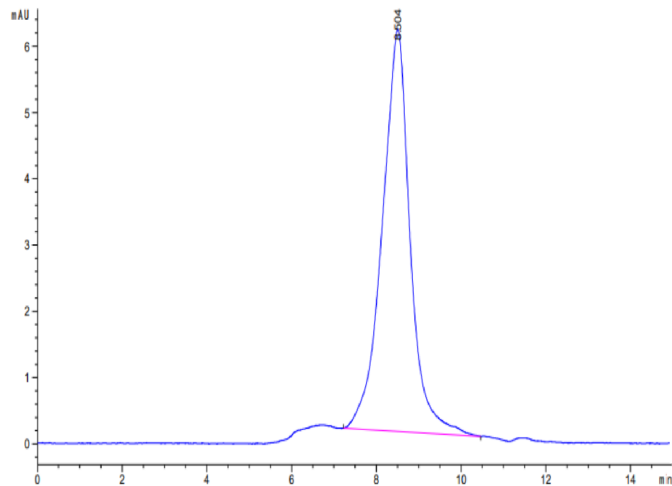
Assay Data

Tris-Bis PAGE



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

SEC-HPLC



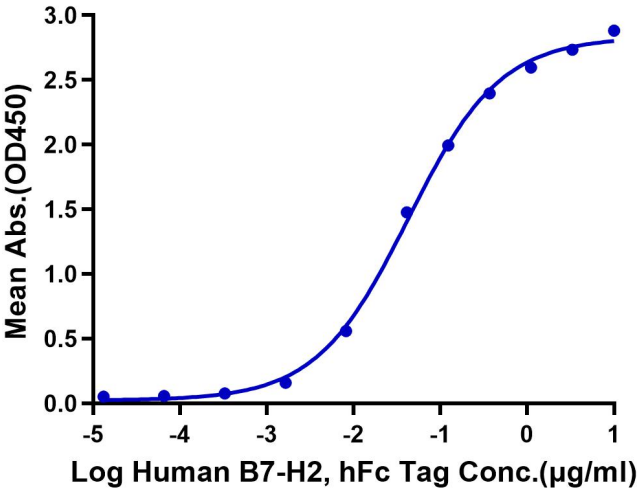
The purity of Human ICOS is greater than 95% as determined by SEC-HPLC.

ELISA Data

Assay 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 22.7ng/ml determined by ELISA.