

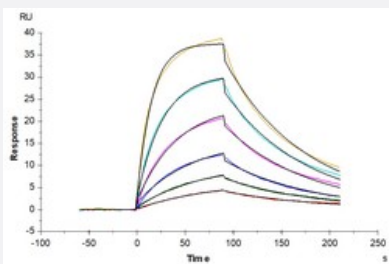
HuPro®

ICOS (Human) Recombinant Protein

Catalog # P9756

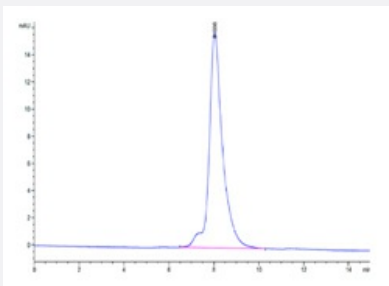
Size 100 ug

Applications



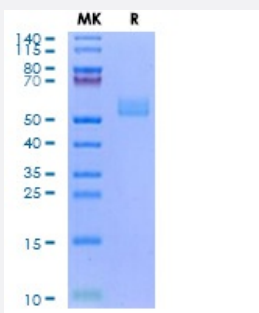
Surface Plasmon Resonance

Human ICOS, hFc Tag (Q50A) captured on CM5 Chip via Protein A can bind Human B7-H2, His Tag with an affinity constant of 41.98 nM as determined in SPR assay (Biacore T200).



SEC-HPLC

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



Tris-Bis PAGE

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

Specification

Product Description

Human ICOSB (Q9Y6W8-1, Glu21-Phe141) partial recombinant protein with hFc tag at C-terminus expressed in HEK293 cells.

Sequence	Glu21-Phe141
Host	Human
Theoretical MW (kDa)	40.45
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human ICOS (Q50A) is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human ICOS (Q50A) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity SPR SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Functional Study
- SDS-PAGE
- Surface Plasmon Resonance

Human ICOS, hFc Tag (Q50A) captured on CM5 Chip via Protein A can bind Human B7-H2, His Tag with an affinity constant of 41.98 nM as determined in SPR assay (Biacore T200).

Gene Info — ICOS

Entrez GeneID	29851
Protein Accession#	Q9Y6W8-1
Gene Name	ICOS

Gene Alias	ALIM, CD278, MGC39850
Gene Description	inducible T-cell co-stimulator
Omim ID	604558 607594
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene belongs to the CD28 and CTLA-4 cell-surface receptor family. It forms homodimers and plays an important role in cell-cell signaling, immune responses, and regulation of cell proliferation. [provided by RefSeq]
Other Designations	activation-inducible lymphocyte immunomediatory molecule inducible costimulator

Pathway

- [Cell adhesion molecules \(CAMs\)](#)
- [Primary immunodeficiency](#)
- [T cell receptor signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Arthritis](#)
- [Asthma](#)
- [Bronchial Hyperreactivity](#)
- [Carcinoma](#)
- [Celiac Disease](#)
- [Cholangitis](#)
- [Chronic Disease](#)
- [Common Variable Immunodeficiency](#)
- [Diabetes Mellitus](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)

- [Graft vs Host Disease](#)
- [Hepatitis C](#)
- [Hypersensitivity](#)
- [IgA Deficiency](#)
- [Leukemia](#)
- [Liver Cirrhosis](#)
- [Lupus Erythematosus](#)
- [Lymphoma](#)
- [Malignant melanoma](#)
- [Multiple Sclerosis](#)
- [Periodontitis](#)
- [Recurrence](#)
- [Uterine Cervical Neoplasms](#)