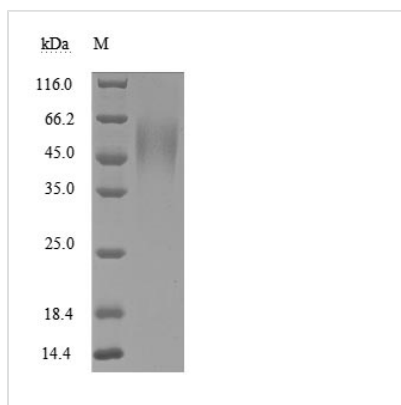


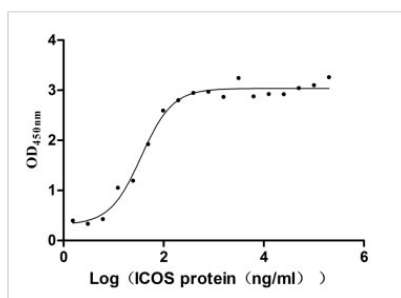


Recombinant Human ICOS ligand (ICOSLG), partial (Active)

Product Code	CSB-MP010958HU1
Relevance	Ligand for the T-cell-specific cell surface receptor ICOS. Acts as a costimulatory signal for T-cell proliferation and cytokine secretion; induces also B-cell proliferation and differentiation into plasma cells.
Abbreviation	Recombinant Human ICOSLG protein, partial (Active)
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	O75144
Form	Lyophilized powder
Product Type	Others
Immunogen Species	Homo sapiens (Human)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized ICOSLG at 2 µg/ml can bind human ICOS (CSB-MP707478HU), the EC ₅₀ of human ICOSLG protein is 29.04-43.59 ng/ml.
Purity	Greater than 95% as determined by SDS-PAGE.
Sequence	DTQEKEVRAMVGSDELSCACPEGSRFDLNDVYVYWQTSESKTVVTYHIPQN SSLENVDSRYRNRALMSPAGMLRGDFSLRLFNVTPQDEQKFHCLVLSQSLGF QEVLSVEVTLHVAANFSVPVVSAPHSPSQDELFTCTTSINGYPRPNVYWINKT DNSLLDQALQNDTVFLNMRGLYDVSVLRIARTPSVNIGCCIEENVLLQQNLTVG SQTGNDIGERDKITENPVSTGEKNAATWS
Research Area	Cancer
Source	Mammalian cell
Target Names	ICOSLG
Expression Region	19-258aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 6xHis-tagged
Mol. Weight	28.9 kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Activity

Measured by its binding ability in a functional ELISA. Immobilized ICOSLG at 2 µg/ml can bind human ICOS (CSB-MP707478HU), the EC₅₀ of human ICOSLG protein is 29.04-43.59 ng/ml.

Description

Human ICOS ligand (ICOSLG) amino acid Asp19-Ser258, with an N-terminal linker, and a C-terminal 6xHis-tag, was expressed in mammalian cells. The product is the recombinant human ICOSLG protein. It is an active protein whose bioactivity has been measured by its binding ability with the human ICOS receptor in a functional ELISA. The EC₅₀ of human ICOSLG protein is 29.04-43.59 ng/ml. The purity of this ICOSLG protein reaches up to 95% determined by SDS-PAGE. It has an apparent molecular mass of 40 kDa on SDS-PAGE while its predicted mass is 28.9 kDa. Glycosylation causes this result. Its endotoxin level is less than 1.0 EU/ug measured by the LAL method. And it is in stock now.

ICOSLG is the ligand for inducible costimulatory molecule (ICOS). ICOS-ICOSLG interaction delivers the co-stimulatory signals that facilitate the activation and differential of T cells. Dysregulation of the ICOS-ICOSLG pathway has been associated with autoimmune diseases and cancer and is a potential immune checkpoint blockade.

Endotoxin

Less than 1.0 EU/ug as determined by LAL method.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.