
Product Data Sheet

Product Name: ICOS Human
 Cat. No.: GP23687
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9,Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Inducible T Cell Costimulator; Activation-Inducible Lymphocyte Immunomediatory Molecule; Inducible T-Cell Costimulator; ALLIM; Inducible T-Cell Co-Stimulator; Inducible Costimulator; CD278 Antigen; CD278; CVID1.		
Amino Acid Sequence	ADPEINGSAN YEMFIFHNGG VQILCKYPD I VQQFKMQLLK GGQILCDLTK TKGSGNTVSI KSLKFCHSQL SNNSVSFFLY NLDHSHANY Y FCNLSIFDPP PFKVTLTGGY LHIYESQLCC QLKLEPKSCD KTHTCPPCPA PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC KVS NKALPAP IEKTISKAKG QPREPQVYTL PPSRDELTKN QVSLTCLVKG FYPSDIAVEW ESNQQPENNY KTTTPVLDSD GSFFLYSKLT VDKSRWQQGN VFSCSVMHEA LHNHYTQKSL SLSPGKHHHHHH		
Formulation	ICOS protein solution (0.25mg/ml) contains 20mM MES buffer (pH 5.5), 40% glycerol, 2mM DTT and 1mM EDTA 0.1M NaCl.		

Introduction

ICOS (inducible T-cell costimulatory) belongs to the CD28 family of immune-assisted stimulatory receptors. ICOS forms homodimers and takes a significant part in immune responses, cell-cell signaling, as well as regulation of cell proliferation. The interaction of B7-H2 / ICOS takes a vital role in T-cell differentiation, T-B cell interaction in addition to humoral immune response is essential for the formation of reproductive centers as well as the production of cytokine IL-4. Moreover, ICOS is more effective in inducing IL-10 production, a cytokine which is important for the inhibitory function of T regulatory cells. The ICOS-B7RP-1 and B7-1 / B7-2-CD28 / CTLA-4 pathways offer a significant second signal which can regulate the inhibition, activation and fine regulation of T-lymphocyte

Caution: Product has not been fully validated for medical applications. For research use only.

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responses. ICOS stimulates the production of Th1 and Th2 cytokines, however it can also participate in the generation of Th2 cells.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

ICOS produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 362 amino acids (21-140a.a.) and having a molecular mass of 40.8kDa. (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). ICOS is expressed with an 242 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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