Recombinant human ICOS protein

Catalog Number: ATGP3771

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
21-140aa

UniProt No.
Q9Y6W8

NCBI Accession No.
NP_036224

Alternative Names
Inducible T-cell costimulator, ICOS, AILIM, CD278, CVID1

PRODUCT SPECIFICATION

Molecular Weight
40.8 kDa (362aa)

Concentration
0.25mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. 20mM MES buffer (pH 5.5) containing 40% glycerol, 2mM DTT, 1mM EDTA 0.1M NaCl

Purity
> 90% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
hIgG-His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
ICOS, also known as inducible T-cell costimulator, is a member of the CD28 family of immune-assisted stimulatory receptors. The interaction of B7-H2 / ICOS plays a crucial role in Th cell differentiation, T-B cell interaction and humoral immune response essential for the formation of reproductive centers and the production of cytokine IL-4. In addition, this protein is more potent in inducing IL-10 production, a cytokine important for the

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inhibitory function of T regulatory cells. The B7-1 / B7-2-CD28 / CTLA-4 and ICOS-B7RP-1 pathways provide an important second signal that can regulate the activation, inhibition and fine regulation of T-lymphocyte responses. It stimulates production of Th1 and Th2 cytokines, but may play a role in the generation of Th2 cells. Recombinant human ICOS, fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

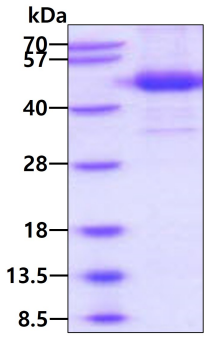
<ADP>EINGSAN YEMFIFHNGG VQILCKYPDI VQQFKMQLLK GGQILCDLTK TKGSGNTVSI KSLKFCHSQL SNNSVSFFLY NLDHSHANYY FCNLSIFDPP PFKVTLTGGY LHIYESQLCC QLK<LEPKSCD KTHTCPPCPA PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC KVSNKALPAP IEKTISKAKG QPREPQVYTL PPSRDELTKN QVSLTCLVKG FYPSDIAVEW ESNGQPENNY KTTPPVLDSD GSFFLYSKLT VDKSRWQQGN VFSCSVMHEA LHNHYTQKSL SLSPGKHHHH HH>

General References

Gonzalo, J.A., et al. (2001) J. Immunol. 166:1-5.
Tezukak., et al. (2000) Biochem Biophys Res Commun. 276:335-345

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.