Recombinant Mouse Inducible T-cell Costimulator is produced by our Mammalian expression system and the
target gene encoding Glu21-Leu142 is expressed with a 6His tag at the C-terminus.

**Accession #:** Q9WVS0
**Known as:** Inducible T-cell costimulator; Activation-inducible lymphocyte immunomediatory molecule; CD28
and CTLA-4-like protein; CCLP; CD28-related protein 1; CRP-1; CD278; Icos; Allim

**DESCRIPTION**

Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4.

**FORMULATION**

Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.
Reconstituted protein solution can be stored at 4-7°C for 2-7 days.
Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**RECONSTITUTION**

Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
**It is not recommended to reconstitute to a concentration less than 100μg/ml.**
Dissolve the lyophilized protein in distilled water.
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**QUALITY CONTROL**

Purity: Greater than 95% as determined by reducing SDS-PAGE.
Endotoxin: Less than 0.1 ng/μg (1 IEU/μg).

**AMINO ACID SEQUENCE**

EINGSADHRMFSFHNGGVQISCKYPETVQQLMRLFREREVLCLELTGKSGAVSIKNPMLCLOYLSNNSVFLNNPDSQ
GSYYFCSLSIFDPFFQERNLSSGYLHYESQCLQLHLHHHHHH

**BACKGROUND**

Inducible Costimulator (ICOS) is a member of the growing CD28 family of immune costimulatory receptors. Other family members are CD28, CTLA4 and PD1. ICOS shares approximately 39% amino acid similarity with CD28 and CTLA4. Mouse and human ICOS share approximately 72% amino acid identity. ICOS is expressed on most CD45RO+ cells. ICOS expression is up-regulated within approximately 24-48 hours of activation on Th primed cells. B7-H2, a member of the B7 family of costimulatory ligands, has been identified as the ICOS ligand. The B7-H2/ ICOS interaction appears to play roles in T cell dependent B cell activation and Th differentiation. In addition, ICOS is more potent in the induction of IL-10 production, cytokine important for suppressive function of T regulatory cells.