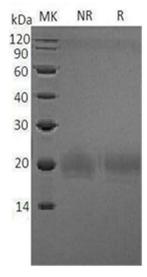|	
Description	Recombinant Mouse Inducible T-cell Costimulator is produced by our Mammalian expression system and the target gene encoding Glu21-Leu142 is expressed with a 6His tag at the C-terminus.
Source	Human Cells
Alternative name	Inducible T-cell costimulator; Activation-inducible lymphocyte immunomediatory molecule; CD28 and CTLA-4-like protein; CCLP; CD28-related protein 1; CRP-1; CD278; Icos; Ailim
Accession No.	O35228&Q8K3I6
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Quality Control	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	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.
Amino Acid Sequence	EINGSADHRMFSFHNGGVQISCKYPETVQQLKMRLFREREVLCELTKTKGSGNAVSIKNPMLCLYHLSN NSVSFFLNNPDSSQ GSYYFCSLSIFDPPPFQERNLSGGYLHIYESQLCCQLKLHHHHHH
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 CD 28 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, acytokine important for suppressive function of T regulatory cells.
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