

Active Recombinant Human ICOS protein

Cat. No. ICOS-1628H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ICOS was expressed in NS0.
Species	Human
Source	Mammalian Cells
Form	This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.
Bio-activity	The biological activity of Human ICOS was determined by the ability to inhibit human T cell proliferation induced by rhB7H2/Fc Chimera in the presence of antiCD3. Wang, S. et al. (2000) Blood 96:2808. The expected ED50 is 1 - 4 µg/ml in the presence of 3 µg/ml rhB7H2/Fc Chimera and antiCD3 immobilized at 20 ng/ml.
Molecular Mass	The predicted molecular weight of Recombinant Human ICOS is Mr 40.3 kDa (monomer). However, the actual molecular weight as observed by migration on SDS Page is Mr 50-60 kDa.
AA Sequence	eingsanyem fihnggvqi lckypdivqq fkmqllkggq ilcdltktkg sgnvtsiksl kfchsqslsn svsfflynld hshanyyfcn lsifdpppfk vltggyli yesqlccqk fiegrmdpks cdkthtccpc papellggps vflfppkpkd tlmisrtpev tcvvvdvshe dpevkfnwyv dgvevhnakt kpreeqynst yrvsvltvl hqdwingkey kckvsnkalp apiektiska kgqprepvy tlppsrldelt knqvsiltclv kgfypsdiav ewesngqpen nykttppvld sdgsfflysk ltvdksrwqq gnvfscsvmh ealhnhytqk slslspgk

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Endotoxin	<1.0 EU/g as determined by the LAL method
Purity	>90% by SDS-PAGE and analyzed by silver stain.
Storage	This lyophilized protein is stable for six to twelve months when stored desiccated at -20 centigrade to -70 centigrade. After aseptic reconstitution, this protein may be stored at 2 centigrade to 8 centigrade for one month or at -20 centigrade to -70 centigrade in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

GENE INFORMATION

Gene Name	ICOS inducible T-cell co-stimulator [Homo sapiens]
Official Symbol	ICOS
Synonyms	ICOS; inducible T-cell co-stimulator; inducible T-cell costimulator; activation inducible lymphocyte immunomediatory molecule; AILIM; CD278; inducible costimulator; activation-inducible lymphocyte immunomediatory molecule; CVID1; MGC39850;
Gene ID	29851
mRNA Refseq	NM_012092
Protein Refseq	NP_036224
MIM	604558
UniProt ID	Q9Y6W8
Chromosome Location	2q33

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Pathway

Adaptive Immune System, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Costimulation by the CD28 family, organism-specific biosystem; Immune System, organism-specific biosystem; Intestinal immune network for IgA production, organism-specific biosystem; Intestinal immune network for IgA production, conserved biosystem;

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