

ICOS Protein, Mouse (C137S, C138S, HEK293, Fc)

Cat. No.:	HY-P78673
Synonyms:	ICOS; CD278; AILIM; Inducible T-cell costimulator
Species:	Mouse
Source:	HEK293
Accession:	Q9WVS0-1 (E21-L144, C137S, C138S)
Gene ID:	54167
Molecular Weight:	40-52 kDa

PROPERTIES

AA Sequence	<p>E I N G S A D H R M F S F H N G G V Q I S C K Y P E T V Q Q L K M R L F R E R E</p> <p>V L C E L T K T K G S G N A V S I K N P M L C L Y H L S N N S V S F F L N N P D</p> <p>S S Q G S Y Y F C S L S I F D P P P F Q E R N L S G G Y L H I Y E S Q L S S Q L</p> <p>K L W L</p>
Biological Activity	<p>1. Immobilized Human B7-H2 His at 1 µg/mL (100 µL/well) can bind Mouse ICOS (C137S C138S, Fc) with a linear range of 0.3-10 ng/mL.</p> <p>2. Measured by its binding ability in a functional ELISA. Immobilized Recombinant Mouse ICOS at 1 µg/mL (100 µL/well) can bind Biotinylated Recombinant Human rhB7-H2. The ED₅₀ for this effect is 37.18 ng/mL.</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized a 0.22 µm filtered solution of Tris with Glycine, Arginine and NaCl, pH 7.5. Normally trehalose is added as protectant before lyophilization. or 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The ICOS protein enhances all fundamental T-cell responses to foreign antigens, including proliferation, secretion of lymphokines, up-regulation of cell-cell interaction molecules, and providing effective help for antibody secretion by B-cells.
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It is essential for facilitating efficient communication between T and B-cells and for normal antibody responses to T-cell dependent antigens. Although it does not increase the production of interleukin-2, it superinduces the synthesis of interleukin-10. Additionally, it prevents apoptosis of pre-activated T-cells and plays a critical role in CD40-mediated class switching of immunoglobulin isotypes. ICOS exists as a homodimer, connected by disulfide bonds.

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

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