

ICOS Protein, Human (121a.a, HEK293, Fc)

Cat. No.:	HY-P72618
Synonyms:	Inducible T-cell costimulator; CD278; AILIM; CVID1; ICOS
Species:	Human
Source:	HEK293
Accession:	Q9Y6W8 (E21-F141)
Gene ID:	29851
Molecular Weight:	Approximately 47 kDa

PROPERTIES

AA Sequence	<p>E I N G S A N Y E M F I F H N G G V Q I L C K Y P D I V Q Q F K M Q L L K G G Q</p> <p>I L C D L T K T K G S G N T V S I K S L K F C H S Q L S N N S V S F F L Y N L D</p> <p>H S H A N Y Y F C N L S I F D P P P F K V T L T G G Y L H I Y E S Q L C C Q L K</p> <p>F</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, 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	<p>ICOS protein significantly enhances fundamental T-cell responses to foreign antigens, encompassing key activities such as cellular proliferation, lymphokine secretion, up-regulation of cell-cell interaction molecules, and effective facilitation of antibody secretion by B-cells. It proves essential for the efficient interplay between T and B-cells, crucial for normal antibody responses to T-cell-dependent antigens. Despite not influencing the production of interleukin-2, ICOS protein superinduces the synthesis of interleukin-10 and prevents the apoptosis of pre-activated T-cells. Moreover, ICOS plays a critical role in CD40-mediated class switching of immunoglobulin isotypes, demonstrating its multifaceted role in orchestrating immune responses. The protein forms homodimers linked by disulfide bonds, further contributing to its functional characteristics.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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