

ICOS Protein, Human (C136S, C137S, HEK293, His)

Cat. No.:	HY-P78546
Synonyms:	AILIM; CD278; CRP-1; CVID1; ICOS; MGC39850
Species:	Human
Source:	HEK293
Accession:	Q9Y6W8 (E21-F141, C136S, C137S)
Gene ID:	29851
Molecular Weight:	35-40 kDa

PROPERTIES

Biological Activity	Immobilized Human ICOS (C136S, C137S) , His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human B7-H2, hFc Tag with the EC ₅₀ of 16.8ng/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
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.
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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA