

## ICOS Protein, Human (HEK293, His-Fc)

Cat. No.:	HY-P76396
Synonyms:	Inducible T-cell costimulator; CD278; AILIM; CVID1; ICOS
Species:	Human
Source:	HEK293
Accession:	Q9Y6W8 (M1-F141)
Gene ID:	29851
Molecular Weight:	Approximately 50 kDa.

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> 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	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.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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