

## ICOS Protein, Rhesus Macaque (Biotinylated, HEK293, Fc-Avi)

Cat. No.:	HY-P75819
Synonyms:	Inducible T-cell costimulator; CD278; AILIM; CVID1; ICOS
Species:	Rhesus Macaque
Source:	HEK293
Accession:	H9Z062 (M1-K140)
Gene ID:	705788
Molecular Weight:	Approximately 42.2 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm 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/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/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	The ICOS protein plays a crucial role in enhancing all fundamental T-cell responses to foreign antigens, including promoting cell proliferation, secretion of lymphokines, up-regulation of molecules involved in cell-cell interaction, and facilitating effective help for antibody secretion by B-cells. It is indispensable for facilitating efficient communication between T and B-cells, as well as for normal antibody responses to T-cell dependent antigens. Although it does not increase the production of interleukin-2, it has the ability to superinduce the synthesis of interleukin-10. Additionally, ICOS prevents the apoptosis of pre-activated T-cells and plays a critical role in CD40-mediated class switching of immunoglobulin isotypes. It exists as a homodimer connected by disulfide bonds.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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