# Recombinant Rhesus macaque ICOS/AILIM/CD278 Protein (Fc Tag)

**Catalog No.** PKSQ050074

***Note:*** Centrifuge before opening to ensure complete recovery of vial contents.

## Description

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|---|---|
| **Synonyms** | Inducible T-cell costimulator;activation-inducible lymphocyte immunomediatory molecule;CD278;AILIM;CVID1;ICOS |
| **Species** | Rhesus macaque |
| **Expression Host** | HEK293 Cells |
| **Sequence** | Gly20-Lys140 |
| **Accession** | H9Z062 |
| **Calculated Molecular Weight** | 40.8 kDa |
| **Observed molecular weight** | 50-60 kDa |
| **Tag** | C-Fc |

## Properties

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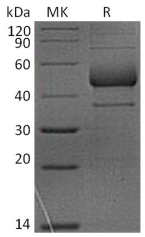
|---|---|
| **Purity** | > 90 % as determined by reducing SDS-PAGE. |
| **Endotoxin** | < 1.0 EU per μg of the protein as determined by the LAL method. |
| **Storage** | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months. |
| **Shipping** | This product is provided as lyophilized powder which is shipped with ice packs. |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| **Reconstitution** | Please refer to the printed manual for detailed information. |

## Data




> 90 % as determined by reducing SDS-PAGE.

## Background

Inducible T-cell costimulator, also known as activation-inducible lymphocyte immunomediatory molecule, CD278, AILIM, CVID1 and ICOS, belongs to the CD28 and CTLA4 cell surface receptor family.. ICOS contains one Ig-like V-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Web: www.elabscience.com Email: techsupport@elabscience.com

type domain and exsits as a homodimer with disulfide-linked. ICOS is highly expressed on tonsillar T-cellsand can be induced by PMA and ionomycin, ICOS plays an important role in cell-cell signaling, immune responses, and regulation of cell proliferation. Defects in ICOS are the cause of immunodeficiency common variable type 1, which is a primary immunodeficiency characterized by antibody deficiency, hypogammaglobulinemia, recurrent bacterial infections and an inability to mount an antibody response to antige.



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