Recombinant Human ICOS/AILIM Protein (Fc Tag)

Catalog No. PKSH033644

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

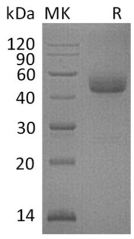
Description

Synonyms	Inducible T-cell costimulator;activation-inducible lymphocyte immunomediatory molecule;CD278;AILIM;CVID1;ICOS;
Species	Human
Expression Host	HEK293 Cells
Sequence	Glu21-Phe141
Accession	Q9Y6W8
Calculated Molecular Weight	40.9 kDa
Observed molecular weight	47 kDa
Tag	C-Fc
Bioactivity	Not validated for activity

Properties

Purity	> 95 % 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. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % 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-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