

Human IGSF3 / EWI-3 Protein (His Tag)

Catalog Number: 11290-H08H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

EWI-3; LCDD; V8; 1700016K10Rik; 2810035F16Rik; 4833439O17Rik; mKIAA0466

Protein Construction:

A DNA sequence encoding the human IGSF3 isoform 1 (O75054-1) extracellular domain (Met 1-Ala 1124) was expressed, with a C-terminal polyhistidine tag.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 98 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Gln 20

Molecular Mass:

The secreted recombinant human IGSF3 comprises 1116 amino acids and has a calculated molecular mass of 126.6 kDa. The apparent molecular mass of the recombinant protein is approximately 140 kDa in SDS-PAGE under reducing conditions due to glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

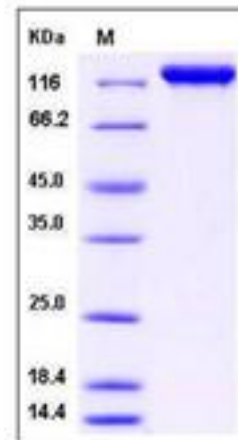
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Immunoglobulin superfamily member 3 (IGSF3), also known as Glu-Trp-Ile EWI motif-containing protein 3, IgSF3 and EWI-3 and IGSF3, is a single-pass type I membrane protein which belongs to the EWI subfamily of the Ig Superfamily of molecules. IGSF3 has an overall structural similarity and strong sequence similarity to V7, a human leukocyte surface protein. IGSF3 contains eight Ig-like C2-type (immunoglobulin-like) domains. IGSF3 is expressed in a wide range of tissues with high expression in Placenta, kidney and lung. EWI-2 is part of a novel Ig subfamily that includes EWI-F (F2alpha receptor regulatory protein (FPRP), CD9P-1), EWI-3 (IGSF3), and EWI-101 (CD101). All four members of this Ig subfamily contain a Glu-Trp-Ile (EWI) motif not seen in other Ig proteins. Human IGSF3 shares 92 % aa identity with mouse IGSF3.

References

1. Saupé S, *et al.* (1998) Molecular cloning of a human cDNA IGSF3 encoding an immunoglobulin-like membrane protein: expression and mapping to chromosome band 1p13. *Genomics*. 52(3): 305-11.
2. Lazaar AL, *et al.* (2001) VCAM-1 activates phosphatidylinositol 3-kinase and induces p120Cbl phosphorylation in human airway smooth muscle cells. *J Immunol*. 166(1): 155-61.
3. Wetzel A, *et al.* (2004) Human Thy-1 (CD90) on activated endothelial cells is a counterreceptor for the leukocyte integrin Mac-1 (CD11b/CD18). *J Immunol*. 172(6): 3850-9.

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