

PRODUCT INFORMATION

FAM3D **Target Synonyms** EF7;OIT1

Recombinant human FAM3D protein with C-**Description**

terminal human Fc tag

Delivery In Stock **Uniprot ID** Q96BQ1 **Expression Host** HFK293

Tag C-Human Fc Tag

Molecular

FAM3D(Tyr26-Phe224) hFc(Glu99-Ala330) Characterization

The protein has a predicted molecular mass of **Molecular Weight**

48.2 kDa after removal of the signal peptide. The apparent molecular mass of FAM3D-hFc is approximately 53-70 kDa due to glycosylation. The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

Purity

staining.

Formulation & Reconstitution

Storage & Shipping

Background

Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.

Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

Family with sequence similarity 3 (FAM3) family is a novel cytokine-like gene family, which has four genes in this family, FAM3A, FAM3B, FAM3C, and FAM3D, each encoding a protein (224-235 amino acids) with a hydrophobic leader sequence. It had indicated that FAM3B/PANDER (pancreatic derived factor) is highly expressed in pancreas, and FAM3D is abundantly expressed in placenta and FAM3D is abundantly expressed in placenta and

weakly expressed in small intestine.

Immunohistochemistry showed that FAM3A is expressed prominently in the vascular endothelium, particularly capillaries. FAM3A and

FAM3B protein were both localized to the islets of

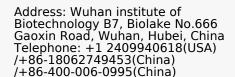
Langerhans of the endocrine pancreas.
Recombinant FAM3B protein has delayed effects on beta-cell function. FAM3C is involved in retinal laminar formation processes in vertebrates. NFATC2, SCP2, CACNA1C, TCRA, POLE, and FAM3D, were associated with narcolepsy. Some of these associations were further supported by

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gene expression analyses and an association study in essential hypersomnia (EHS), CNS

hypersonia similar to narcolepsy.

Usage Research use only Conjugate Unconjugated







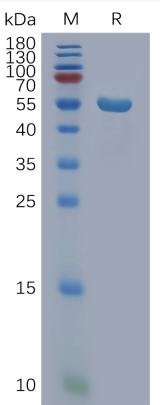


Figure 1. Human FAM3D Protein, hFc Tag on SDS-PAGE under reducing condition.



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