

## Product Datasheet

# FAM3B Protein, Human, Recombinant (hFc) (orb1957047)

<b>Description</b>	Pancreatic derived factor, also known as FAM3B, is an islet-specific secreted cytokine specifically expressed at high levels in the islets of Langerhans of the endocrine pancreas. FAM3B protein is present in alpha- and beta- cells of pancreatic islets, insulin-secreting beta-TC3 cells, and glucagon-secreting alpha-TC cells. FAM3B causes apoptosis of beta-cells as assessed by electron microscopy, annexin V fluorescent staining, and flow-cytometric terminal deoxynucleotidyl transferase-mediated dUTP nick-end labeling assay. FAM3B activated caspase-3 while not affect cytosolic Ca <sup>2+</sup> levels or nitric oxide levels. Hence, FAM3B may have a role in the process of pancreatic- $\beta$ -cell apoptosis of primary islet and cell lines. FAM3B secretion is regulated by glucose and other insulin secretagogues. This islet-specific secreted cytokine is secreted from both pancreatic alpha- and beta- cells. Glucose stimulates FAM3B secretion dose dependently in beta- cell lines and primary islets but not in alpha-cells. It is likely cosecreted with insulin via the same regulatory mechanisms and structure and conformation is vital for FAM3B secretion.
<b>Storage</b>	-20°C
<b>Tag</b>	C-hFc
<b>Note</b>	For research use only
<b>Application notes</b>	A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.
<b>Purity</b>	98.00%
<b>MW</b>	50 kDa (predicted); 57 kDa (reducing conditions)
<b>Uniprot ID</b>	<b>P58499</b>
<b>Expiration Date</b>	6 months from date of receipt.

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