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**Product Data Sheet**


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Product Name: FAM3A Human  
 Cat. No.: GP23463  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Protein FAM3A; Cytokine-like protein 2-19; FAM3A; 2-19; 2.19; DLD; XAP-7; DXS560S.		
Amino Acid Sequence	MKHHHHHHASFPRIQQLFTS PESSVTAAPR ARKYKCGLPQ PCPEEHLAFR VVSGAANVIG PKICLEDKML MSSVKDNVGR GLNIALVNGV SGELIEARAF DMWAGDVNDL LKFIRPLHEG TLV FVASYDD PATKMNEETR KLFSELGSRN AKELAFRDSW VFVGAKGVQN KSPFEQHVKN SKHSNKYEGW PEALEMEGCI PRRSTAS.		
Solubility	It is recommended to add 200 $\mu$ l deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. FAM3A is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	FAM3A filtered (0.4 $\mu$ m) and lyophilized from 0.5mg/ml in 20mM TRIS and 50mM NaCl, pH 7.5.		

**Introduction**

Family with Sequence Similarity 3, Member A (FAM3A) is a member of the FAM3 family along with FAM3B (Pander) protein which induces apoptosis of pancreatic alpha and beta cells. FAM3A is a cytokine-like protein, which is expressed in almost all tissues such as the testis, pancreas, adrenal, placenta, brain, fetal brain, liver, kidney, skeletal muscle and the heart. FAM3A gene expression may be regulated by peroxisome proliferator-activated receptor gamma, and the FAM3A protein might be involved in the regulation of glucose and lipid metabolism. Although the function of the FAM3A protein has been unclear until now, it may act as a defensin against invading fungal microorganisms.

**Stability**

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Store lyophilized protein at  $-20^{\circ}\text{C}$ . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at  $4^{\circ}\text{C}$  for a limited period of time; it does not show any change after two weeks at  $4^{\circ}\text{C}$ .

### Background

FAM3A Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 207 amino acids including a 10 a.a N-terminal His tag. The total molecular mass is 23.1kDa (calculated).

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