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**Product Data Sheet**


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Product Name: FUCA1 Human  
 Cat. No.: GP21636  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9,Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Fucosidase; Alpha-L- 1; Tissue; Alpha-L-FucosideFucohydrolase 1; Alpha-L-Fucosidase 1; Alpha-L-Fucosidase I; EC 3.2.1.51; TissueAlpha-L-Fucosidase; EC 3.2.1; FUCA; Tissue alpha-L-fucosidase.		
Amino Acid Sequence	VVRAQPPRRY TPDWPSLDSR PLPAWFDEAK FGVFIHWGVF SVPAWGSEWFWWHWQGEGRP QYQRFMRDNY PPGFSYADFG PQFTARFFHP EEWADLFQAA GAKYVVLTTK HHEGFTNWSPVSWNWNNSKD VGPHRDLVGE LGTALRKRNI RYGLYHSLLE WFHPLYLLDK KNGFKTQHFV SAKTMPELYDLVNSYKPDLI WSDGEWECPD TYWNSTNFLS WLYNDSPVKD EVVNDRWGQ NCSCHGGYY NCEDKFKPQSLPDHKWEMCT SIDKFSWGYR RDMALSDVTE ESEIISELVQ TVSLGGNYLL NIGPTKDGLI VPIFQERLLAVGKWSLNGE AIYASKPWRV QWEKNTTSVW YTSKGSAYYA IFLHWPENGV LNLESPITTS TTKITMLGIQGDLKWSTDPD KGLFISLPQL PPSAVPAEFA WTIKLTGVKH HHHHH.		
Formulation	FUCA1 protein solution (0.5mg/ml) contains PhosphateBuffered Saline (pH 7.4) and 10% glycerol.		

**Introduction**

Fucosidase Alpha-L- 1 Plasma, alsoknown as FUCA1 is a member of the glycosyl hydrolase 29 family which is responsible for hydrolyzing the alpha-1,6-linked fucose joined to the reducing-end N-acetylglucosamine of the carbohydrate moieties of glycoproteins. Fucosidosis is an autosomal recessivelysosomal storage disease caused by the absence of alpha-L-fucosidase activity.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

FUCA1 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 445 amino acids (28-466a.a.) and having a molecular mass of 51.7kDa. (Molecular size on SDS-PAGE will appear at approximately 50-70kDa).

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