

# Recombinant human alpha-L-Fucosidase 1/FUCA1 protein

Catalog Number: ATGP3170

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

28-466aa

### UniProt No.

P04066

### NCBI Accession No.

NP\_000138

### Alternative Names

Tissue alpha-L-fucosidase,  $\alpha$ -L-fucosidase 1, Tissue alpha-L-fucosidase, a-L-fucosidase 1, Alpha-L-fucosidase I, Alpha-L-fucoside fucohydrolase 1, Alpha-L-fucosidase 1

## PRODUCT SPECIFICATION

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### Molecular Weight

51.7 kDa (445aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1 $\mu$ g of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

FUCA1, also known as tissue alpha-L-fucosidase, 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 recessive lysosomal storage disease resulting from absence of alpha-L-fucosidase activity.

# Recombinant human alpha-L-Fucosidase 1/FUCA1 protein

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Recombinant human FUCA1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

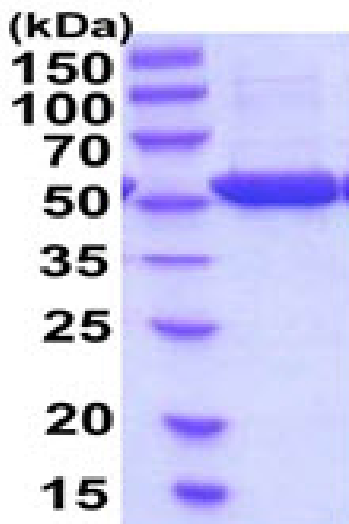
VRRAQPPRRY TPDWPSLDSR PLPAWFDEAK FGVFIHWGVF SVPWAGSEWF WWHWQGEGRP QYQRFMRDNY  
PPGFSYADFG PQFTARFFHP EEWADLFQAA GAKYVVLTTK HHEGFTNWPS PVSWNWNSKD VGPHRDLVGE LGTALRKRNI  
RYGLYHSLLE WFHPLYLLDK KNGFKTQHFV SAKTMEPLYD LVNSYKPDLI WSDGEWPCPD TYWNSTNFLS WLYNDSPVKD  
EVVVNDRWGQ NCSCHGGYY NCEDKFKPQS LPDHKWEMCT SIDKFSWGYR RDMALSDVTE ESEIISELVQ TVSLGGNYLL  
NIGPTKDGLI VPIFQERLLA VGKWSINGE AIYASKPWRV QWEKNTTSVW YTSKGSAYYA IFLHWPENGV LNLESPITTS  
TTKITMLGIQ GDLKWSTDPD KGLFISLPQL PPSAVPAEFA WTIKLTGVKH HHHHH

## General References

Yang M. et al., (1993) *Biochim. Biophys. Acta.* 1182(3):245-249.  
Seo H.-C. et al., (1994) *Hum. Mol. Genet.* 3(11):2065-2066.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)