

**FUCA1, 28-466aa, Human, His tag, Insect cell**

**Cat.NO.: TP02160**

3th Edition

**Synonyms:**FUCA

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

**Form:**Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

**Molecular Weight:**51.7kDa (445aa) 50-70KDa (SDS-PAGE under reducing conditions.)

**Sequences:**

VRRAQPPRRYTPDWPSLDSRPLPAWFDEAKFGVFIHWGVFSVPAWGSEWFVWHWQEGEGRPQYQRFMRDNYP  
PGFSYADFGPQFTARFFHPEEWADLFQAAGAKYVVLTTKHHEGFTNWSPVSWNWNSKDVGPHRDLVGELGTAL  
RKRNIYGLYHSLLEWFHPLYLLDKKNGFKTQHFVSAKTMPELYDLVNSYKPDLIWSDGEWECPTYWNSTNFLS  
WLYNDSPVKDEVVVNDRWQNCSCHHGGYYNCEDKFKPQSLPDHKWEMCTSIDKFSWGYRRDMALSDVTEES  
EIISELVQTVSLGGNYLLNIGPTKDGLIVPIFQERLLAVGKWLSINGEAIYASKPWRVQWEKNTTSVWYTSKGSVYAI  
FLHWPENGVNLNLESPITTSTTKITMLGIQGDLDKWSTDPDKGLFISLPQLPPSAVPAEFAWTIKLTGVKHHHHHH

**Purity:**> 95% by HPLC

**Concentration:**0.5mg/ml (determined by Absorbance at 280nm)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.