

# Recombinant Human FUCA1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. FUCA1-1835H Lot. No. (See product label)

## SPECIFICATION

### Product Overview

FUCA1 MS Standard C13 and N15-labeled recombinant protein (NP\_000138) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

### Species

Human

### Source

HEK293

### Description

The protein encoded by this gene is a lysosomal enzyme involved in the degradation of fucose-containing glycoproteins and glycolipids. Mutations in this gene are associated with fucosidosis (FUCA1D), which is an autosomal recessive lysosomal storage disease. A pseudogene of this locus is present on chr 2.

### Molecular Mass

53.2 kDa

### AA Sequence

MRSRPAGPALLLLLLFLGAAESVRRRAQPPRRYTPDWPSLDSRPLPAWFDEAKFGVF  
 IHWGVFSVPAWGSEWFWWHWQGEGRPQYQRFMRDNYPPGFSYADFGPQFTARF  
 FHPEEWADLFQAAGAKYVVLTTKHHEGFTNWSPVSWNWNKDVGPHRDLVGEL  
 GTALRKRNIIRYGLYHSLLEWFHPLYLLDKKNGFKTQHFVSAKTMPELYDLVNSYKPD  
 LIWSDGEWECPTYWNSTNFLSWLYNDSPVKDEVVVNDRWGQNCSCHHGGYYN  
 CEDKFKPQSLPDHKWEMCTSIDKFSWGYRRDMALSDVTEESEIISELVQTVSLGNN  
 YLLNIGPTKDGLIVPIFQERLLAVGKWL SINGEAIYASKPWRVQWEKNTTSVWYTSKG  
 SAVYAIFLHWPENGVNLNLESPITTSTTKITMLGIQGDLLKWDTPDKGLFISLPQLPPSA  
 VPAEFAWTIKLTGVKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>Storage</b>	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
<b>Concentration</b>	50 µg/mL as determined by BCA
<b>Storage Buffer</b>	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

<b>Gene Name</b>	FUCA1 alpha-L-fucosidase 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	FUCA1
<b>Synonyms</b>	FUCA1; fucosidase, alpha-L- 1, tissue; tissue alpha-L-fucosidase; alpha-L-fucosidase 1; alpha-L-fucosidase I; alpha-L-fucoside fucohydrolase 1; FUCA;
<b>Gene ID</b>	2517
<b>mRNA Refseq</b>	NM_000147
<b>Protein Refseq</b>	NP_000138
<b>MIM</b>	612280
<b>UniProt ID</b>	P04066

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**SDS-PAGE**



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