

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	MRSRPAGPALLLLLFLGAAESVRRRAQPPRRYTPDWPSLDSRPLPAWFDEAKFGVF IHWGVFSVPAWGSEWFWWWHWQGEGRPQYQRFMRDNYPPGFSYADFGPQFTARF FHPEEWADLFQAAGAKYVVLTTKHHEGFTNWSPVSWNWNSKDVGPHRDLVGEL GTALRKRNIRYGLYHSLLEWFHPLYLLDKKNGFKTQHFVSAKTMPELYDLVNSYKPD LIWSDGEWECPDYWNSTNFLSWLYNDSPVKDEVVNDRWGQNCSCHHGGYYN CEDKFKPQSLPDHKWEMCTSIDKFSWGYRRDMALSDVTEESEIISLVQTVSLGNN YLLNIGPTKDGLIVPIFQERLLAVGKWLSINGEAIYASKPWRVQWEKNTTSVWYTSKG SAVYAIFLHWPENGVLNLESPITTSTTKITMLGIQGDLKWSTDPDKGLFISLPQLPPSA VPAEFAWTIKLTGVKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

GENE INFORMATION

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

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SDS-PAGE

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