

Recombinant Human FUCA1 protein, His-tagged

Cat. No. FUCA1-53H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human FUCA1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
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.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	51.7kDa (445aa)50-70KDa (SDS-PAGE under reducing conditions.)
AA Sequence	<p> VRR AQPPRRY TPDWPSLDSR PLPAWFDEAK FGVFIHWGVF SVP AWGSEWF WWHWQGEGRP QYQRFMRDNY PPGFSYADFG PQFTARFFHPEEWADLFQAA GAKYVVLTTK HHEGFTNWPS PVSWNWNSKD VGPHRDLVGE LGTALRKRNI RYGLYHSLLE WFHPLYLLDK KNGFKTQHFVSAKTMPELYD LVNSYKPDLI WSDGEWPCPD TYWNSTNFLS WLYNDSPVKD EVVVNDRWGQ NCSCHHGGYY NCEDKFKPQS LPDHKWEMCTSIDKFSWGYR RDMALSDVTE ESEIISELVQ TVSLGGNYLL NIGPTKDGLI VPIFQERLLA VGKWLSINGE AIYASKPWRV QWEKNTTSVWYTSKGS AVYA IFLHWPENGV LNLESPITTS TTKITMLGIQ GDLKWSTDPD KGLFISLPQL PPSAVPAEFA WTIKLTGVKH HHHHH </p>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Purity	>90 % by SDS – PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name	FUCA1 fucosidase, alpha-L- 1, tissue [Homo sapiens]
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
Chromosome Location	1p34

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Pathway

Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Other glycan degradation, organism-specific biosystem; Other glycan degradation, conserved biosystem;

Function

alpha-L-fucosidase activity; cation binding; hydrolase activity, acting on glycosyl bonds; sugar binding;

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