

Active Recombinant Human Fucosidase, Alpha-L- 1, Tissue, His-tagged

Cat. No. FUCA1-471H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FUCA1 protein was expressed in Murine myeloma cell line with an N-terminal CD33 signal sequence and a C-terminal 6-His tag. Gln32-Lys466.
Species	Human
Source	Mammalian Cells
Protein Length	32-466 a.a.
Description	Fucosylated glycoconjugates play numerous roles in biological processes, such as development, apoptosis and the immune responses, and are involved in the pathology of inflammation, cancer and cystic fibrosis. Tissue α L Fucosidase, also known as FUCA1, is a lysosomal enzyme responsible for hydrolyzing α L fucose moieties from glycolipids and oligosaccharides.
Form	Supplied as a 0.2 μ m filtered solution in Tris and NaCl.
N-terminal Sequence	Gln32
Molecular Weight	51 kDa
Activity	Measured by its ability to cleave a fluorogenic substrate 4-methylumbelliferyl- α -L-fuco pyranoside. The specific activity is > 4800 pmol/min/ μ g, as measured under the described conditions. See Activity Assay Protocol.

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Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie Bluestain at 5 µg per lane.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, 20 to 70 °C as supplied. 3 months, 20 to 70 °C under sterile conditions after opening.

GENE INFORMATION

Gene Name	FUCA1 fucosidase, alpha-L- 1, tissue[Homo sapiens]
Official Symbol	FUCA1
Synonyms	FUCA1; fucosidase, alpha-L- 1, tissue; FUCA; tissue alpha-L-fucosidase; alpha-L-fucosidase 1; alpha-L-fucosidase I; alpha-L-fucoside fucosylhydrolase 1; EC 3.2.1.51; Nbla10230
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; Other glycan degradation
Function	alpha-L-fucosidase activity; cation binding; hydrolase activity; sugar bindin