Recombinant Full Length Human LMAN1 Protein, C-Flag-tagged

Cat. No. LMAN1-224HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human LMAN1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is a membrane mannose-specific lectin that cycles between the endoplasmic reticulum, endoplasmic reticulum-Golgi intermediate compartment, and cis-Golgi, functioning as a cargo receptor for glycoprotein transport. The protein has an N-terminal signal sequence, a calcium-dependent and pH-sensitive carbohydrate recognition domain, a stalk region that functions in oligomerization, a transmembrane domain, and a short cytoplasmic domain required for organelle targeting. Allelic variants of this gene are associated with the autosomal recessive disorder combined factor V-factor VIII deficiency.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	54.2 kDa
AA Sequence	MAGSRQRGLRARVRPLFCALLLSLGRFVRGDGVGGDPAVALPHRRFEYKYSFKGP HLVQSDGTVPFWAHA GNAIPSSDQIRVAPSLKSQRGSVWTKTKAAFENWEVEVTF RVTGRGRIGADGLAIWYAENQGLEGPVFGS ADLWNGVGIFFDSFDNDGKKNNPAIV IIGNNGQIHYDHQNDGASQALASCQRDFRNKPYPVRAKITYYQN TLTVMINNGFTPD

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

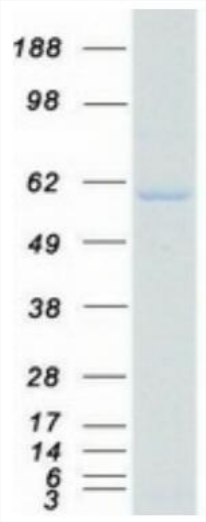
	KNDYEFCAKVENMIIPAQGHFGISAATGGLADDHDVLSFLTFQLTEPGKEPPTPDKE I SEKEKEKYQEEFEHFQQELDKKKEEFQKGHPDLQGQPAEEIFESVGDRELRQVFEG QNRIHLEIKQLNR QLDMILDEQRRYVSSLTEEISKRGAGMPGQHGQITQQELDTVVK TQHEILRQVNEMKNSLSETVRLVSGM QHPGSAGGVYETTQHFIDIKEHLHIVKRDID NLVQRNMPSNEKPKCPELPPFPSCLSTVHFIIFVVVQTV LFIGYIMYRSQQEAAAKKFFTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane
Full Length	Full L.

GENE INFORMATION

Gene Name	LMAN1 lectin, mannose binding 1 [Homo sapiens (human)]
Official Symbol	LMAN1
Synonyms	MR60; gp58; F5F8D; FMFD1; MCFD1; ERGIC53; ERGIC-53

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Gene ID	3998
mRNA Refseq	NM_005570.4
Protein Refseq	NP_005561.1
MIM	601567
UniProt ID	P49257



Coomassie blue staining of purified LMAN1 protein.

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