

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (KL-153)	VELMANASE ALFA
PRONUNCIATION	vel' man ase al' fa
THERAPEUTIC CLAIM	Enzyme replacement therapy for the treatment of alpha-mannosidosis
CHEMICAL NAMES	

Mannosidase, α - (synthetic human) (Source: SciFinder; ACI)

Human lysosomal alpha-mannosidase (Laman, EC3.2.1.24, mannosidase alpha class 2B member 1), produced in CHO (Chinese Hamster Ovary) cells, alfa glycoform (Source: INN PINN 113, RINN 75)

STRUCTURAL FORMULA

GGYETCPTVQ	PNMLNVHLLP	HTHDDVGWLK	TVDQYFYGIK	NDIQHAGVQY	50
ILDSVISALL	ADPTRRFIYV	EIAFFSRWWH	QQTNATQEVV	RDLVRQGRLE	100
FANGGWMND	EAATHYGAIV	DQMTLGLRFL	EDTFGNDGRP	RVAWHIDPFG	150
HSREQASLFA	QMGFDGFFFG	RLDYQDKWVR	MQKLEMEQVW	RASTSLKPPT	200
ADLFTGVLPN	GYNPPRNLWC	DVLCVDQPLV	EDPRSPEYNA	KELVDYFLNV	250
ATAQGRYIRT	NHTVMTMGSD	FQYENANMWF	KNLDKLIRLV	NAQQAKGSSV	300
HVLYSTPACY	LWELNKANLT	WSVKHDDFFP	YADGPHQFWT	GYFSSRPALK	350
RYERLSYNFL	QVCNQLEALV	GLAANVGPIY	SGDSAPLNEA	MAVLQHHDVA	400
SGTSRQHVAN	DYARQLAAGW	GPCEVLLSNA	LARLRGFKDH	FTFCQQLNIS	450
ICPLSQTAAR	FQVIVYNPLG	RKVNWMVRLP	VSEGVFVVKD	PNGRTVPSDV	500
VIFPSSDSQA	HPELLEFSAS	LPALGFSTYS	VAQVPRWKPO	ARAPQPIPRR	550
SWSPALTIEN	EHIRATFDPD	TGLLMEIMNM	NQQLLLPVRQ	TFFWYNASIG	600
DNESDQASGA	YIFRPNQKPK	LPVSRWAQIH	LVKTPLVQEV	HQNFSAWCSQ	650
VVRLYPGQRH	LELEWSVGPI	PVGDTWGKEV	ISRFDTPLET	KGRFYTDSNG	700
REILERRRDY	RPTWKLNQTE	PVAGNYYPVN	TRIYITDGNM	QLTVLTDRSQ	750
GGSSLRDGS	ELMVHRRLLK	DDGRGVSEPL	MENGSAGWVR	GRHLVLLDTA	800
QAAAAGHRL	AEQEVLAPOV	VLAPGGGAAY	NLGAPPRTQF	SGLRRDLPPS	850
VHLLTLASWG	PEMVLRLLEH	QFAVGEDSGR	NLSAPVTLNL	RDLFSTFTIT	900
RLQETTLVAN	QLREAASRLK	WTTNTGPTPH	QTPYQLDPAN	ITLEPMEIRT	950
FLASVQWKEV	DG				1000

Glycosylation Sites

N	84
N	261
N	318
N	448
N	596
N	602
N	643
N	717
N	783
N	881
N	940

Disulfide Bridges

6-309
219-224
363-423
444-452

MOLECULAR FORMULA	C ₄₈₈₃ H ₇₄₇₈ N ₁₃₆₆ O ₁₄₀₆ S ₂₈
MOLECULAR WEIGHT	108.7 kDa (peptide only)
TRADEMARK	Lamzedo
SPONSOR	Chiesi Farmaceutici S.p.A.
CODE DESIGNATIONS	CHF-LMZYMAA1, A16AB
<u>CAS</u> REGISTRY NUMBER	1492823-75-2
UNII	M91TG242P2
WHO NUMBER	10140

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