

August 26, 2015

## STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (CD-129) OLIPUDASE ALFA

PRONUNCIATION oh lip' ue dase

THERAPEUTIC CLAIM Enzyme replacement therapy, treatment of Niemann-Pick disease

CHEMICAL NAMES

1. Sphingomyelinase C (synthetic human)
2. Des-(1-13)-human sphingomyelin phosphodiesterase (acid sphingomyelinase, EC-3.1.4.12) glycosylated, produced in CHO cells

## STRUCTURAL FORMULA

Sequence

	HPLSPQG	HPARLHRIVP	RLRDVFGWGN	LTCPICKGLF	50
TAINLGLKKE	PNVARVGSVA	IKLCNLLKIA	PPAVCQSIVH	LFEDDMVEVW	100
RRSVLSPSEA	CGLLLGSTCG	HWDIFSSWNI	SLPTVPKPPP	KPPSPAPGA	150
PVSRILFLTD	LHWDHDYLEG	TDPDCADPLC	CRRGSGLPPA	SRPGAGYWGE	200
YSKCDLPLRT	LESLLSGLGP	AGPFDMVYWT	GDIPAHDVVH	QTRQDQLRAL	250
TTVTALVRKF	LGPVPVYPAV	GNHSTPVNS	FPPPFIEGNH	SSRWLYEAMA	300
KAWEPWLPAE	ALRTLRIIGGF	YALSPYPGLR	LISLNMNFC	RENFWLLINS	350
TDPAGQLQWL	VGELQAAEDR	GDKVHIIGHI	PPGHCLKSWS	WNYRIVARY	400
ENTLAAQFFG	HTHVDEFEVF	YDEETLSRPL	AVAFAPSAT	TYIGLNPGYR	450
VYQIDGNYSG	SSHVVDHET	YILNLTQANI	PGAIPHWQLL	YRARETYGLP	500
NTLPTAWHNL	VYRMRGDMQL	FQTFWFLYHK	GHPPSEPCGT	PCRLATLCAQ	550
LSARADSPAL	CRHLMPDGSL	PEAQLWPRP	LFC		583

Disulfide bridges location

43-119 46-111 74-85 175-180 181-204 339-385 538-542 548-561

Glycosylation sites (N) / Sites de glycosylation (N) / Posiciones de glicosilación (N)

Asn-40 Asn-129 Asn-289 Asn-349 Asn-457 Asn-474

MOLECULAR FORMULA  $C_{2900}H_{4389}N_{783}O_{791}S_{24}$  (peptide)

MOLECULAR WEIGHT 63.65 kDa (peptide)

TRADEMARK None as yet

SPONSOR Genzyme Corp.

CODE DESIGNATIONS GZ402665

CAS REGISTRY NUMBER 927883-84-9

UNII 6D5766Q4OP

WHO NUMBER 9966  
gbk