

May 27, 2015

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (CD-54)

LANADELUMAB

PRONUNCIATION

lan" a del' ue mab

THERAPEUTIC CLAIM

Prevention of angioedema in patients with hereditary angioedema

CHEMICAL NAMES

1. Immunoglobulin G1, anti-(human plasma kallikrein) (human monoclonal DX-2930 heavy chain), disulfide with human monoclonal DX-2930 light chain, dimer
2. Immunoglobulin G1-kappa, anti-(human plasma kallikrein (Fletcher factor, kininogenin, plasma prekallikrein, EC=3.4.21.34)), human monoclonal antibody: γ 1 heavy chain (1-451) [human VH (human IGHV3-23*01 (91%) – (IGHD)-IGHJ3*02 (94%) [8.8.15] (1-122) –human IGHG1*03 [CH3 K¹⁰⁷del (452)] (123-451)] (225-213')-disulfide with kappa light chain (1'-213') [human V-KAPPA (human IGKV1-5*03 (98%) –IGKJ1*01) [6.3.8] (1'-106') –human IGKC*01 (107'-213') dimer (231-231":234-234")-bisdisulfide

STRUCTURAL FORMULA

Heavy chain

EVQLLESGGG	LVQPGGSLRL	SCAASGFTFS	HYIMMWVRQA	PGKLEWVSG	50
IYSSGGITVY	ADSVKGRFTI	SRDNSKNTLY	LQMNSLRAED	TAVYYCAYRR	100
IGVPRRDEFD	IWQGGMVTV	SSASTKGPSV	FPLAPSSKST	SGGTAALGCL	150
VKDYFPEPVT	VSWNSGALTS	GVHTFPAVLQ	SSGLYSLSSV	VTVPSSSLGT	200
QTYICNVNHK	PSNTKVDKRV	EPKSCDKTHT	CPPCPAPELL	GGPSVFLFPP	250
KPKDTLMISR	TPEVTCVVVD	VSHEDPEVKF	NWYVDGVEVH	NAKTKPREEQ	300
YNSTYRVVSV	LTVLHQDWLN	GKEYKCKVSN	KALPAPIEKT	ISKAKGQPRE	350
PQVYTLPPSR	EEMTKNQVSL	TCLVKGFYPS	DIAVEWESNG	QPENNYKTTTP	400
PVLDSGGSFF	LYSKLTVDKS	RWQQGNVFSC	SVMHEALHNH	YTQKSLSLSP	450
G					451

Light chain

DIQMTQSPST	LSASVGDRVVT	ITCRASQGIS	SWLAWYQQKP	GKAPKLLIYK	50'
ASTLESQVPS	RFSGSGSGTE	F ¹ LT ¹ ISSLQP	DDFATYYCQQ	YNTYWTFGQG	100'
TKVEIKRTVA	APSVFIFPPS	DEQLKSGTAS	VVCLLNNFYP	REAKVQWKVD	150'
NALQSGNSQE	SVTEQDSKDS	TYSLSTLTL	SKADYEKHKV	YACEVTHQGL	200'
SSPVTKSFNR	GEC				213'

Disulfide bridges

22-96	22"-96"	23'-88'	23"-88"	133'-193'	133"-193"	149-205	149"-205"
213'-225	213"-225"	231-231"	234-234"	266-326	266"-326"	372-430	372"-430"

Glycosylation sites (N)

Asn-302 Asn-302"

MOLECULAR FORMULA

C₆₄₆₈H₁₀₀₁₆N₁₇₂₈O₂₀₁₂S₄₈ (peptide)

MOLECULAR WEIGHT

145.7 kDa (peptide)

TRADEMARK	None as yet
SPONSOR	Dyax Corp.
CODE DESIGNATIONS	DX-2930
<u>CAS</u> REGISTRY NUMBER	1426055-14-2
UNII	2372V1TKXK
WHO NUMBER	10265

gbk