

January 28, 2015

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (cd-30) LIFASTUZUMAB

PRONUNCIATION lye" fas tooz' ue mab

THERAPEUTIC CLAIM Treatment of cancer

CHEMICAL NAMES

1. Immunoglobulin G1, anti-(human phosphate-sodium cotransporter NaPi3b) (human-*Mus musculus* monoclonal DNIB0600A heavy chain), disulfide with human-*Mus musculus* monoclonal DNIB0600A light chain, dimer
2. Immunoglobulin G1-kappa, anti-(human Sodium-dependent phosphate transport protein 2B (NaPi3b, sodium/phosphate cotransporter 2B, NaPi-2b, solute carrier family 34 member 2)), humanized mouse monoclonal antibody: γ 1 heavy chain (1-449) [humanized VH (humanIGHV3-23*4 (86%) –(IGHD)-IGHJ5*01) (93%) [8.8.13] (1-120) –humanIGHG1*03 [CH1 R⁹⁷>K(217),CH3 K¹⁰⁷del (450)] (121-449)] (223-219')-disulfide with kappa light chain (1'-219') [humanized V-KAPPA (humanIGKV1-39*01 (78%) –IGKJ1*01) [11.3.9] (1'-112') –humanIGKC*01 (113'-219')] dimer (229-229":232-232")-bisdisulfide

STRUCTURAL FORMULA

Heavy chain

EVQLVESGGG	LVQPGGSLRL	SCAASGFSFS	DFAMSWVRQA	PGKLEWVAT	50
IGRVAFTYY	PDSMKGRFTI	SRDNSKNTLY	LQMNSLRAED	TAVYYCARHR	100
GFDVGHFDFW	GQGLTLTVSS	ASTKGPSVFP	LAPSSKSTSG	GTAALGCLVK	150
DYFPEPVTVS	WNSGALTSKV	HTFPAVLQSS	GLYSLSSVVT	VPSSSLGTQT	200
YICNVNHNKPS	NTKVDDKVEP	KSCDKTHTCP	PCPAPPELLGG	PSVFLFPPPKP	250
KDTLMISRTP	EVTCVVVDVDS	HEDPEVKFNW	YVDGVEVHNA	KTKPREEQYN	300
STYRVVSVLT	VLHQDWLNGK	EYKCKVSNKA	LPAPIEKTIS	KAKGQPREPQ	350
VYTLPPSREE	MTKNQVSLTC	LVKGFYPSDI	AVEWESNGQP	ENNYKTTTPV	400
LDSDGSFFLY	SKLTVDKSRW	QQGNVFSCSV	MHEALHNHYT	QKSLSLSPGK	450

Light chain

DIQMTQSPSS	LSASVGDRVVT	ITCRSSETLV	HSSGNTYLEW	YQQKPGKAPK	50'
LLIYRVSNRF	SGVPSRFSGS	GSGTDFTLTI	SSLQPEDFAT	YYCFQGSFNP	100'
LTFGQGTKVE	IKRTVAAPSV	FIFPPSDEQL	KSGTASVVCL	LNNFYPREAK	150'
VQWKVDNALQ	SGNSQESVTE	QDSKDYSTYSL	SSTLTLSKAD	YEKHKVYACE	200'
VTHQGLSSPV	TKSFNRGEC				219'

Disulfide bridges location

22-96	22"-96"	23'-93'	23"-93"	139'-199'	139"-199"	147-203	147"-203"
219'-223	219"-223"	229-229"	232-232"	264-324	264"-324"	370-428	370"-428"

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

Asn-300 Asn-300"

MOLECULAR FORMULA

C₆₅₀₄H₁₀₀₂₈N₁₇₄₄O₂₀₁₈S₄₆ (peptide)

MOLECULAR WEIGHT

146.4 kDa (peptide)

TRADEMARK	None as yet
SPONSOR	Genentech/Roche
CODE DESIGNATIONS	NaPi3b, MNIB2126A
<u>CAS</u> REGISTRY NUMBER	1615697-16-9
UNII	S072MTS0FN

gbk