

June 24, 2015

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (CD-90)

UBLITUXIMAB

PRONUNCIATION

ue" bli tux' i mab

THERAPEUTIC CLAIM

Treatment of cancer, autoimmune disorders

CHEMICAL NAMES

1. Immunoglobulin G1, anti-(human CD20 (antigen)) (human-mouse monoclonal γ 1-chain), disulfide with human-mouse monoclonal κ -chain, dimer
2. Immunoglobulin G1-kappa, anti-(human B-lymphocyte antigen CD20 (membrane-spanning 4-domains subfamily A member 1, B-lymphocyte surface antigen B1, leucocyte surface antigen Leu-16, Bp35)), chimeric human mouse monoclonal antibody: γ 1 heavy chain (1-448) [mouse VH (*Mus musculus* IGHV1-12*01 (98%) –(IGHD)-IGHJ4*01) [8.8.11] (1-118) -*Homo sapiens* IGHG1*01 (119-448)] (221-213')-disulfide with kappa light chain (1'-213') [mouse V-KAPPA (*Mus musculus* IGKV4-72*01 (97%) –IGKJ1*01 (91%)) [5.3.9] (1'-106') -*Homo sapiens* IGKC*01 (107'-213')] dimer (227-227":230-230")-bisdisulfide

STRUCTURAL FORMULA

Heavy chain

QAYLQQSGAE	LVRPGASVKM	SCKASGYTFT	SYNMHWVKQT	PRQGLEWIGG	50
IYPGNGDTSY	NQKFKGKATL	TVGKSSSTAY	QQLSSLTSED	SAVYFCARYD	100
YNYAMDYWGQ	GTSVTVSSAS	TKGPSVFPLA	PSSKSTSGGT	AALGCLVKDY	150
FPEPVTVSWN	SGALTSVHT	FPAVLQSSGL	YSLSSVTVTP	SSSLGTQTYI	200
CNVNPKPSNT	KVDKKVEPKS	CDKTHTCPPC	PAPELLGGPS	VFLFPPKPKD	250
TLMISRTPPEV	TCVVDVDSHE	DPEVKFNWYV	DGVEVHNAKT	KPREEQYNST	300
YRVVSVLTVL	HQDWLNGKEY	KCKVSNKALP	APIEKTISKA	KGQPREPQVY	350
TLPPSRDELDT	KNQVSLTCLV	KGFYPSDIAV	EWESNGQPEN	NYKTTTPVLD	400
SDGSFFLYSK	LTVDKSRWQQ	GNVFCSSVMH	EALHNHYTQK	SLSLSPGK	448

Light chain

QIVLSQSPAI	LSASPGKVT	MTCRASSSVS	YMHWYQQKPG	SSPKPWIYAT	50'
SNLASGVPAR	FSGSGSGTSS	SFTISRVEAE	DAATYQCQW	TFNPPTFGGG	100'
TRLEIKRTVA	APSVFIFPPS	DEQLKSGTAS	VVCLLNNFYF	REAKVQWKVD	150'
NALQSGNSQE	SVTEQDSKDS	TYSLSSTLTL	SKADYEKHKV	YACEVTHQGL	200'
SSPVTKSFNR	GEC				213'

Disulfide bridges location

22-96	22"-96"	23'-87'	23"-87"	133'-193'	133"-193"	145-201	145"-201"
213'-221	213"-221"	227-227"	230-230"	262-322	262"-322"	368-426	368"-426"

Glycosylation sites (N)

Asn-298 Asn-298"

MOLECULAR FORMULA

 $C_{6418}H_{9866}N_{1702}O_{2006}S_{48}$

MOLECULAR WEIGHT

144.5 kDa (peptide)

TRADEMARK	None as yet
SPONSOR	TG Therapeutics, Inc.
CODE DESIGNATIONS	TG-1101
<u>CAS</u> REGISTRY NUMBER	1174014-05-1
UNII	U59UGK3IPC
WHO NUMBER	9334

gbk