

February 25, 2015

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (BC-76) MIRVETUXIMAB

PRONUNCIATION mir' ve tux' i mab

THERAPEUTIC CLAIM Treatment of cancer

CHEMICAL NAMES

1. Immunoglobulin G1, anti-(human folate receptor α) (human-*Mus musculus* monoclonal M9346A heavy chain), disulfide with human-*Mus musculus* monoclonal M9346A light chain, dimer
2. Immunoglobulin G1-kappa, anti-(human folate receptor alpha (adult folate-binding protein, folate receptor 1, KB cells FBP, ovarian tumor-associated antigen Mov18)); humanized mouse monoclonal antibody: γ 1 heavy chain (1-447) [*Mus musculus* VH (IGHV1-37*01-(IGHD)-IGHJ4*01) (88%) [8.8.11] (1-119) -des-(CH3K¹⁰⁷ (448))-IGHG1*01 (119-447)] (221-218')-disulfide with kappa light chain (1'-218') [*Mus musculus* V-KAPPA (IGKV3-9*01-IGKJ1*02) (81%) [10.3.9] (1'-111') -IGKC*01 (112'-218')] dimer (227-227":230-230")-bisdisulfide

STRUCTURAL FORMULA

Heavy chain

QVQLVQSGAE	VVKPGASVKI	SCKASGYTFT	GYFMNWKQS	PGQSLEWIGR	50
IHPYDGDIFY	NQKFQKATL	TVDKSSNTAH	MELLSLTSED	FAVYYCTRYD	100
GSRAMDYWGQ	GTTVTVSSAS	TKGPSVFPLA	PSSKSTSGGT	AALGCLVKDY	150
FPEPVTVSWN	SGALTSQVHT	FPAVLQSSGL	YSLSSVVTVP	SSSLGTQTYI	200
CNVNHPKPSNT	KVDKKVEPKS	CDKTHTCPPC	PAPELLGGPS	VFLFPPKPKD	250
TLMISRTPPEV	TCVVVDVSH	DPEVKFNWYV	DGVEVHNAKT	KPREEQYNST	300
YRVVSVLTVL	HQDWLNGKEY	KCKVSNKALP	APIEKTISKA	KGQPREPQVY	350
TLPPSRDEL	KNQVSLTCLV	KGFYPSDIAV	EWESNGQPEN	NYKTPPVLD	400
SDGSFFLYSK	LTVDKSRWQQ	GNVFSCSVMH	EALHNHYTQK	SLSLSPG	447

Light chain

DIVLTQSPPLS	LAVSLGQPAI	ISCKASQSVS	FAGTSLMHWY	HQKPGQPRL	50'
LTYRASNLEA	GVPDRFSGSG	SKTDFTLTIS	PVEAEDAATY	YCQQSREYPY	100'
TFGGGTKLEI	KRTVAAPSVF	IFPPSDEQLK	SGTASVVCLL	NNFYPREAKV	150'
QWKVDNALQS	GNSQESVTEQ	DSKSTYSLS	STLTLSKADY	EKHKVYACEV	200'
THQGLSSPVT	KSFNRGEC				218'

Disulfide bridges

22-96	22"-96"	23'-92'	23'''-92'''	138"-198"	138'''-198'''	145-201	145"-201"
218"-221"	218'''-221'''	227-227"	230-230"	262-322	262"-322"	368-426	368"-426"

Glycosylation sites (N)

Asn-298 Asn-298"

MOLECULAR FORMULA

C₆₄₈₂H₁₀₀₀₆N₁₇₁₄O₂₀₂₂S₄₄

MOLECULAR WEIGHT	145.7 kDa
TRADEMARK	None as yet
SPONSOR	ImmunoGen, Inc.
CODE DESIGNATIONS	M9346A
<u>CAS</u> REGISTRY NUMBER	1453084-36-0
UNII	4MFH3B1EFU
WHO NUMBER	10187

gbk