

May 27, 2015

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (BC-158) BLONTUVETMAB

PRONUNCIATION blon" tue vet' mab

THERAPEUTIC CLAIM Veterinary antineoplastic

CHEMICAL NAMES

1. Immunoglobulin G2, anti-(*Canis familiaris* lymphocyte) (*Canis familiaris* monoclonal AT-004 heavy chain), disulfide with *Canis familiaris* monoclonal AT-004 λ -chain, dimer
2. Immunoglobulin G2-kappa, anti-(dog B-lymphocyte antigen CD20 (membrane-spanning 4-domains subfamily A member 1, antigen CD20)); chimeric dog mouse monoclonal antibody: γ 2 heavy chain (1-448) [mouse VH (*Mus musculus* IGHV1-15*01 (96%) –(IGHD)-IGHJ1*03 (87%)) [8.8.6] (1-113) –*Canis familiaris* IGHG2*01{CH1 T¹⁸>Q (131),CH3 E¹⁰¹>K (440)} (114-448)] (128-218')-disulfide with ν -kappa c-lambda light chain (1'-219') [mouse V-KAPPA (*Mus musculus* IGKV8-30*01 (95%) –IGKJ5*01 (78%)) [12.3.9] (1'-113') –*Canis familiaris* IGLC1S1*01{V⁴⁹>I (162')} (114'-219')] dimer (225-225":228-228")-bisdisulfide

STRUCTURAL FORMULA

Heavy chain

QVQLQQSRAE	LVRPGASVTL	SCKPSGYTFT	DYEVHWVKQT	PVHGLEWIGA	50
IDPETGGTAD	NQKFKGKAIL	TADKSSSTAY	MELRSLTSED	SAVYYCTNFV	100
DVWGTGTIVT	VSSASTTAPS	VFPLAPSCGS	QSGSTVALAC	LVSIFYFPEPV	150
TVSWNSGSLT	SGVHTFPSVL	QSSGLYSLSS	MVTVPSSRWP	SETFTCNVAH	200
PASKTKVDKP	VPKRENGRVP	RPPDCPKCPA	PEMLGGPSVF	IFPPKPKDTL	250
LIARTPEVTC	VVVDLDPEDP	EVQISWFVDG	KQMQTAKTQP	REEQFNGTYR	300
VVSVLPIGHQ	DWLKKGQFTC	KVNNKALPSP	IERTLSKARG	QAHQPSVYVL	350
PPSREELSKN	TVSLTCLIKD	FFPPDIDVEW	QSNQQEPEPES	KYRTTPPQLD	400
EDGSYFLYSK	LSVDKSRWQR	GDTFICAVMH	EALHNHYTQK	SLSHSPGK	448

Light chain

DVMSQSPSS	LAVSVGEKVT	MSCKSSQSLL	YSGNQKNYLA	WYQQKPGQSP	50'
RLLIYWASTR	ESGVPDRFTG	SGSGTDFTLT	ISSVKAEDLA	VFYCQQYYNY	100'
PLTFGGGTHL	TVLGQPKASP	SVTLFPPSSE	ELGANKATLV	CLISDFYPSG	150'
VTVAWKADGS	PITQGVETTK	PSKQSNKYA	ASSYLSLTPD	KWKSHSSFSC	200'
LVTHEGSTVE	KKVAPAECS				119'

Disulfide bridges

22-96	22"-96"	23'-94'	23""-94""	128-218'	128"-218""	140-196	140"-196"
141'-200'	141""-200""	225-225"	228-228"	260-320	260"-320"	366-426	366"-426"

Glycosylation sites (N)

Asn-296 Asn-296'

MOLECULAR FORMULA

C₆₄₆₂H₉₉₈₄N₁₇₁₂O₂₀₁₂S₄₆ (peptide)

MOLECULAR WEIGHT	145.32 kDa (peptide)
TRADEMARK	BLONTRESS
SPONSOR	Aratana Pharmaceuticals
CODE DESIGNATIONS	AT-004, VT-007
<u>CAS</u> REGISTRY NUMBER	1608112-78-2
UNII	49OD1NGH0Z
WHO NUMBER	10194

gbk