

June 24, 2015

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (BC-159) TAMTUVETMAB

PRONUNCIATION tam" tue vet' mab

THERAPEUTIC CLAIM Veterinary antineoplastic

CHEMICAL NAME

1. Immunoglobulin G2, anti-(*Canis familiaris* T cell) (*Canis familiaris* monoclonal AT-005 heavy chain), disulfide with *Canis familiaris* monoclonal AT-005 λ -chain, dimer
2. immunoglobulin G2-lambda, anti-(*Canis familiaris* CAMPATH-1 antigen (epididymal secretory protein E5, antigen CD-52)); chimeric *Canis familiaris* *Rattus norvegicus* monoclonal antibody: γ 2 heavy chain (1-456) [*Rattus norvegicus* VH (IGHV7S6*01 (97%) –(IGHD)-IGHJ3*01) [8.10.12] (1-121) – *Canis lupus familiaris* IGHG2*02 (122-456)] (136-212')-disulfide with lambda light chain (1'-213') [*Rattus norvegicus* V-KAPPA (IGKV22S7*01 (94%) – IGKJ1*01(86%)) [6.3.9] (1'-107') -*Canis lupus familiaris* IGLC1S1*01 {V49>I(156)} (108'-213')] dimer (233-233":236-236")-bisdisulfide

STRUCTURAL FORMULA

Heavy chain

EVKLLLESGGG	LVQPPGSMRL	SCAGSGFTFT	DFYMNWIRQP	AGKAPEWLG	50
IRDKAKGYTT	EYNPSVKGRF	TISRDNQNM	LYLQMNTRLA	EDTATYYCAR	100
EGHTAAPFDY	WGQGLVTVS	SASTTAPSVF	PLAPSCGSTS	GSTVALACLV	150
SGYFPEPVTV	SWNSGSLTSG	VHTFPSVLQS	SGLYSLSMV	TVPSSRWPE	200
TFTCNVAHPA	SKTKVDKPPV	KRENGRVRP	PDCPKCPAPE	MLGGPSVFI	250
PPKPKDTLLI	ARTPEVTCVV	VLDLDPEDPEV	QISWFVDGKQ	MQTAKTQPRE	300
EQFNGTYRVV	SVLPIGHQDW	LKKGQFTCKV	NNKALPSPIE	RTISKARGQA	350
HQPSVYVLP	SREELSKNTV	SLTCLIKDF	PPDIDVEWQS	NGQQEPESKY	400
RTTPPQLDED	GSYFLYSKLS	VDKSRWQRGD	TFICAVMHEA	LHNHYTQKSL	450
SHSPGK					506

Light chain

DIKMTQSPSF	LSASVGDRV	LNCKASQNI	KYLNWYQQK	GESPKLLIYN	50'
TNNLQTGIPS	RFSGSGSGTD	FRTLTISLQ	EDVATYFCLQ	HISRPRTFGG	100'
GTHLTVLGQP	KASPSVTLFP	PSSEELGANK	ATLVCLISDF	YPSGVTVAWK	150'
ADGSPITQGV	ETTKPSKQSN	NKYAASSYLS	LTPDKWKS	SFSCSLVTHEG	200'
STVEKKVAPA	ECS				213'

Disulfide bridges

22-98	22"-98"	23'-88'	23"-88"	136-212'	136"-212"	135'-194'	135"-194"
148-204	148"-204"	233-233"	236-236"	268-328	268"-328"	374-434	374"-434"

Glycosylation sites (N)

Asn-304 Asn-304'

MOLECULAR FORMULA	$C_{6506}H_{10086}N_{1748}O_{1997}S_{50}$
MOLECULAR WEIGHT	146.3 kDa
TRADEMARK	TACTRESS
SPONSOR	Aratana Therapeutics
CODE DESIGNATIONS	AT-005
<u>CAS</u> REGISTRY NUMBER	1608122-71-9
UNII	03E1FV7JUC
WHO NUMBER	10195

gbk