

February 24, 2015

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (de-27) VANDORTUZUMAB

PRONUNCIATION van" dor tooz' ue mab

THERAPEUTIC CLAIM Treatment of cancer

CHEMICAL NAMES

1. Immunoglobulin G1, anti-(human antigen STEAP1 (six transmembrane epithelial antigen of prostate 1)) (human-*Mus musculus* monoclonal MSTP2109A heavy chain), disulfide with human-*Mus musculus* monoclonal MSTP2109A κ -chain, dimer
2. Immunoglobulin G1-kappa, anti-[*Homo sapiens* STEAP1 (six-transmembrane epithelial antigen of the prostate 1, PRSS24, STEAP)], humanized monoclonal antibody; gamma1 heavy chain (1-454) [humanized VH (*Homo sapiens* IGHV3-48*03 (80.80%) -(IGHD)-IGHJ4*01) [9.7.17] (1-124) -*Homo sapiens* IGHG1*03 (CH1 R120>K (221) (125-222), hinge (223-237), CH2 (238-347), CH3 (348-452), CHS (453-454)) (125-454)], (227-220')-disulfide with kappa light chain (1'-220') [humanized V-KAPPA (*Homo sapiens* IGKV1-16*01 (81.20%) -IGKJ1*01) [12.3.9] (1'-113') -*Homo sapiens* IGKC*01 (114'-220')]; dimer (233- 233":236-236")-bisdisulfide

STRUCTURAL FORMULA

Heavy chain

EVQLVESGGG	LVQPGGSLRL	SCAVSGYSIT	SDYAWNWRQ	APGKGLEWVG	50
YISNSGTSY	NPSLKSRTFI	SRDTSKNTLY	LQMNSLRAED	TAVYYCARER	100
NYDYDDYYA	MDYWGGTLV	TVSSASTKGP	SVFPLAPSSK	STSGGTAALG	150
CLVKDYFPEP	VTVSWNSGAL	TSGVHTFPAV	LQSSGLYSL	SVVTVPSSSL	200
GTQTYICNVN	HKPSNTKVDK	KVEPKSCDKT	HTCPPCPAPE	LLGGPSVFLF	250
PPKPKDTLMI	SRTPEVTCV	VDVSHEDPEV	KFNWYVDGVE	VHNAKTKPRE	300
EQYNSTYRVV	SVLTIVLHGDW	LNGKEYKCKV	SNKALPAPIE	KTISKAKGQP	350
REPQVYTLPP	SREEMTKNQV	SLTCLVKGFY	PSDIAVEWES	NGQPENNYKT	400
TPPVLDSDGS	FFLYSKLTVD	KSRWQQGNVF	SCSVMHEALH	NHYTQKLSL	450
SPGK					454

Light chain

DIQMTQSPSS	LSASVGDRTV	ITCKSSQSL	YRSNQKNYLA	WYQQKPGKAP	50'
KLLIYWASTR	ESGVPFRFSG	SGSGTDFTLT	ISSLQPEDFA	TYQCQQYNY	100'
PRTFGQGTKV	EIKRTVAAPS	VFIFPPSDEQ	LKSGTASVVC	LLNNFYPREA	150'
KVQWKVDNAL	QSGNSQESVT	EQDSKDYSTYS	LSSTLTLSKA	DYEKHKVYAC	200'
EVTHQGLSSP	VTKSFNRGEC				220'

Disulfide bridges

22-96	22'-96"	23'-94'	23'''-94'''	140'-200'	140'''-200'''	151-207	151''-207''
220-227	220''-227''	233-233"	236-236"	268-328	268''-328''	374-432	374''-432''

Glycosylation sites (N)

Asn-304 Asn-304'

MOLECULAR FORMULA

C₆₆₀₈H₁₀₁₆₈N₁₇₅₆O₂₀₇₆S₄₄ (peptide)

MOLECULAR WEIGHT	148.8 kDa (Peptide only)
TRADEMARK	None as yet
SPONSOR	Genentech/Roche
CODE DESIGNATIONS	RG7450, DSTP3086S, MSTP2109A
<u>CAS</u> REGISTRY NUMBER	1557989-52-2
UNII	O5EGV7ISVU

gbk