

December 30, 2014

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (BC-56) ASCRINVACUMAB

PRONUNCIATION as" krin vak' ue mab

THERAPEUTIC CLAIM Antineoplastic

CHEMICAL NAMES

1. Immunoglobulin G2, anti-(human activin receptor-like kinase 1) (human monoclonal PF-03446962 heavy chain), disulfide with human monoclonal PF-03446962 light chain, dimer
2. Immunoglobulin G2-kappa, anti-(human serine/threonine-protein kinase receptor R3 (SKR3, activin receptor-like kinase 1, ALK-1, TGF-B superfamily receptor type 1, TSR-I)); human monoclonal antibody: γ 2 heavy chain (1-443) [human VH (IGHV4-31*03 (98%) –(IGHD)-IGHJ4*01) Q¹>pyroGlu [10.7.10] (1-118) –IGHG2*01 CH3 K¹⁰⁷>- (444) (119-443)] (132-215')-disulfide with kappa light chain (1'-215') [human V-KAPPA (IGKV3-20*01 (99%) –IGKJ5*01) [7.3.9] (1'-108') –IGKC*01 (109'-215')] dimer (220-220":221-221":224-224":227-227")-tetrakisdisulfide

STRUCTURAL FORMULA

Heavy chain

<u>Q</u> VQLQESGPG	LVKPSQTLSSL	TCTVSGGSIS	SGEYYWNWIR	QHPGKGLEWI	50
GYIYYSGSTY	YNPSLKS RV T	ISVDTSKNQF	SLKLSSVTAA	DTAVYYCARE	100
SVAGFDYWGQ	GTLVTVSSAS	TKGPSVFPLA	PCSRSTSEST	AALGCLVKDY	150
FPEPVTVSWN	SGALTSGVHT	FPAVLQSSGL	YSLSSVVTVP	SSNFGTQTYT	200
CNVDHKPSNT	KVDKTV ERKC	CVECP PCPAP	PVAGPSVFLF	PPKPKDTLMI	250
SRTPEVTCVV	VDVSHEDPEV	QFNWYVDGVE	VHNAKTKPRE	EQFNSTFRVV	300
SVLTVVHQDW	LNGKEYKCKV	SNKGLPAPIE	KTISKTKGQP	REPQVYTLPP	350
SREEMTKNQV	SLTCLVKGFY	PSDIAVEWES	NGQPENNYKT	TPPMLDSDGS	400
FFLYSKLTVD	KSRWQQGNVF	SCSV MHEALH	NHYTQKLSLSL	SPG	443

Light chain

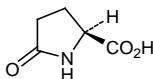
EIVLTQSPGT	LSLSPGERAT	LSCRASQSVS	SSYLAWYQQK	PGQAPRLLIY	50'
GTSSRATGIP	DRFSGSGSGT	DFTLTISRLE	PEDFAVYYCQ	QYGSSPITFG	100'
QGTRLEIKRT	VAAPSVFIFP	PSDEQLKSGT	ASVVCLLNMF	YPREAKVQWK	150'
VDNALQSGNS	QESVTEQDSK	DSTYLSSTL	TLSKADYEKH	KVYACEVTHQ	200'
GLSSPVTKSF	NRGEC				215'

Disulfide bridges

22-97	22"-97"	23'-89'	23"-89"	132-215'	132"-215"
135'-195'	135"-195"	145-201	145"-201"	220-220"	221-221"
224-224"	227-227"	258-318	258"-318"	364-422	364"-422"

Modified residues

Q
1, 1"
pyroglutamic acid (Glp)



Glycosylation sites (N)

Asn-294 Asn-294"

MOLECULAR FORMULA	$C_{6396}H_{9850}N_{1694}O_{2012}S_{44}$
MOLECULAR WEIGHT	144.1 kDa
TRADEMARK	None as yet
SPONSOR	Pfizer Inc.
CODE DESIGNATIONS	PF-03446962
<u>CAS</u> REGISTRY NUMBER	1463459-96-2
UNII	716FQ5REVO
WHO NUMBER	10106

gbk