

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (JK-168) PIVEKIMAB
 PRONUNCIATION pi vek' i mab
 THERAPEUTIC CLAIM Treatment of cancer

CHEMICAL NAMES

1. Immunoglobulin G1 [446-cysteine], anti-(human interleukin 3 receptor) (human-*Mus musculus* monoclonal G4723A γ 1-chain), disulfide with human-*Mus musculus* monoclonal G4723A κ -chain, dimer (Source: CAS)
2. Immunoglobulin G1-kappa, anti-[*Homo sapiens* IL3RA (interleukin 3 receptor subunit alpha, interleukin 3 receptor, alpha (low affinity), CD123)], monoclonal antibody; gamma1 heavy chain (1-450) [VH (*Homo sapiens* IGHV1-46*01 (80.6%) -(IGHD) -IGHJ4*01 (100%), CDR-IMGT [8.8.14] (26-33.51-58.97-110)) (1-121) -*Homo sapiens* IGHG1*01, G1m17,1 (CH1 K120 (218) (122-219), hinge 1-15 (220-234), CH2 (235-344), CH3 D12 (360), L14 (362), S122>C (446) (345-449), CHS K2>del (450)) (122-450)], (224-214')-disulfide with kappa light chain (1'-214') [V-KAPPA Musmus/Homsap (*Mus musculus* IGKV14-111*01 (83.2%) -IGKJ2*03 (83.3%) S120>Q (100), L124>V (104)/*Homo sapiens* IGKV1-16*01 (82.1%) -IGKJ2*01 (91.7%) L124>V (104), CDR-IMGT [6.3.9] (27-32.50-52.89-97)) (1'-107') -*Homo sapiens* IGKC*01 (100%), Km3 A45.1 (153), V101 (191) (108'-214')]; dimer (230-230''-233-233'')-bisdisulfide, produced in a Chinese hamster ovary (CHO)-K1 cell line, glycoform alfa (Source: WHO pINN list 125)

STRUCTURAL FORMULA

Heavy chain

QVQLVQSGAE	VKKPGASVKV	SCKASGYIFT	SSIMHWVQA	PGQGLEWIGY	50
IKPYNDRGTY	NEKFKGRATL	TSDRSTSTAY	MELSSLRSED	TAVYVCAREG	100
GNDYYDTMDY	WQGTLVTVS	SASTKGPSVF	PLAPSSKSTS	GGTAALGCLV	150
KDYFPEPVTV	SWNSGALTSG	VHTFPAVLQS	SGLYSLSSVV	TVPSSSLGTQ	200
TYICNVNHKP	SNTKVDKKE	PKSCDKTHTC	PPCPAPELLG	GPSVFLFPPK	250
PKDTLMISRT	PEVTCVVVDV	SHEDPEVKFN	WYVDGVEVHN	AKTKPREEQY	300
NSTYRVVSVL	TVLHQDWLNG	KEYCKVSNK	ALPAPIEKTI	SKAKGQPREP	350
QVYTLPPSRD	ELTKNQVSLT	CLVKGFYPSD	IAVEWESNGQ	PENNYKTTTP	400
VLDSGDSGFFL	YSKLTVDKSR	WQQGNVFSCS	VMHEALHNHY	TQKSLCLSPG	450

Light chain

DIQMTQSPSS	LSASVGDRVVT	ITCRASQDIN	SYLSWFQQKP	GKAPKTLIYR	50'
VNRLVDGVPS	RFSGSGSGND	YTLTISSLQP	EDFATYYCLQ	YDAFPYTFGQ	100'
GTKVEIKRTV	AAPSVFIFPP	SDEQLKSGTA	SVVCLLNNFY	PREAKVQWKV	150'
DNALQSGNSQ	ESVTEQDSKD	STYLSSTLT	LSKADYEKHK	VYACEVTHQG	200'
LSSPVTKSFN	RGECH				214'

Disulfide bridges

22-96	22''-96''	23'-88'	23'''-88'''	134'-194'	134'''-194'''	148-204	148''-204''
224-214'	224''-214''	230-230''	233-233''	265-325	265''-325''	371-429	371''-429''

Glycosylation sites (N)

301, 301''

MOLECULAR FORMULA	C ₆₄₇₆ H ₁₀₀₃₄ N ₁₇₂₀ O ₂₀₃₁ S ₄₆ (peptide only)
MOLECULAR WEIGHT	145.95 kDa (peptide only)
TRADEMARK	None as yet
SPONSOR	ImmunoGen
CODE DESIGNATIONS	G4723A
<u>CAS</u> REGISTRY NUMBER	2234335-84-1
UNII	B7BU7JJ4PP
WHO NUMBER	11693

gbk