

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (GH-36) SPARTALIZUMAB
 PRONUNCIATION spar" ta liz' ue mab
 THERAPEUTIC CLAIM Antineoplastic (checkpoint inhibitor)

CHEMICAL NAMES

1. Immunoglobulin G4, anti-(human programmed cell death protein 1)(human-*Mus musculus* monoclonal clone NVS240118 γ 4-chain), disulfide with human-*Mus musculus* monoclonal clone NVS240118 κ -chain, dimer
2. Immunoglobulin G4-kappa, anti-(*Homo sapiens* programmed cell death protein 1 (protein PD-1, CD-279 antigen)); humanized monoclonal antibody; γ 4 heavy chain (1-443) [humanized VH (*Homo sapiens* IGHV1-69-2*01 (75%) –(IGHD)-IGHJ6*01) [8.8.10] (1-117) -*Homo sapiens* IGHG4*01 {hinge[S¹⁰>P(225)], CH3[K¹⁰⁷>del(444)]} (118-443)] (131-220')-disulfide with κ light chain (1'-220') [humanized V-KAPPA (*Homo sapiens* IGKV3D-11*03 (76%) –IGKJ1*01 (92%)] [12.3.9] (1'-113') -*Homo sapiens* IGKC*01 (114'-220')], dimer (223-223":226-226")-bisdisulfide

STRUCTURAL FORMULA

Heavy chain

EVQLVQSGAE	VKKPGESLRI	SCKGSGYTFT	TYWMHWVRQA	TGQGLEWMGN	50
IYPGTGGSNF	DEKFKNRVTI	TADKSTSTAY	MELSSLRSED	TAVYYCTRWT	100
TGTGAYWQQG	TTVTVSSAST	KGPSVFPLAP	CSRSTSESTA	ALGCLVKDYF	150
PEPVTVSWNS	GALTSVHTF	PAVLQSSGLY	SLSSVTVVPS	SSLGTKTYTC	200
NVDHKPSNTK	VDKRVESKYG	PPCPPCPAPE	FLGGPSVFLF	PPKPKDTLMI	250
SRTPEVTCVV	VDVSQEDPEV	QFNWYVDGVE	VHNAKTKPRE	EQFNSTYRVV	300
SVLTVLHQDW	LNGKEYKCKV	SNKGLPSSIE	KTISKAKGQP	REPQVYTLPP	350
SQEEMTKNQV	SLTCLVKGFY	PSDIAVEWES	NGQPENNYKT	TPPVLDSDGS	400
FFLYSRLTVD	KSRWQEGNVF	SCSVMHEALH	NHYTQKSLSL	SLG	443

Light chain

EIVLTQSPAT	LSLSPGERAT	LSCKSSQSLL	DSGNQKNFLT	WYQQKPGQAP	50'
RLLIYWASTR	ESGVPSRFSG	SGSGTDFFTFT	ISSLEAEDAA	TYICQNDYSY	100'
PYTFGGQTKV	EIKRTVAAPS	VFIFPPSDEQ	LKSGTASVVC	LLNNFYPREA	150'
KVQWKVDNAL	QSGNSQESVT	EQDSKDSTYS	LSSTLTLSKA	DYKHKVYAC	200'
EVTHQGLSSP	VTKSFNRGEC				220'

Disulfide bridges location

22-96	22"-96"	23'-94'	23'''-94'''	131-220'	131"-220"	140'-200'	140"-200"
144-200	144"-200"	223-223"	226-226"	258-318	258"-318"	364-422	364"-422"

Glycosylation sites (N)
 Asn-294 Asn-294"

MOLECULAR FORMULA C₆₄₆₀H₉₉₂₄N₁₇₀₈O₂₀₅₂S₄₄ (non-glycosylated)

MOLECULAR WEIGHT 145.8 kDa (non-glycosylated)

TRADEMARK	None as yet
SPONSOR	Novartis Pharma AG
CODE DESIGNATIONS	PDR001, NVP-LZV184
<u>CAS</u> REGISTRY NUMBER	1935694-88-4
UNII	QOG25L6Z8Z
WHO NUMBER	10624

gbk