

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (FG-76)

PEPINEMAB

PRONUNCIATION

pep in' e mab

THERAPEUTIC CLAIM

Treatment of solid tumors, multiple sclerosis and Huntington's disease

CHEMICAL NAMES

1. Immunoglobulin G4 [226-proline], anti-(human Semaphorin 4D)(humanized monoclonal VX-15/2503 γ 4-chain), disulfide with humanized monoclonal VX-15/2503 κ -chain, dimer
2. Immunoglobulin G4-kappa, anti-(*Homo sapiens* Semaphorine-D4 (CD100 antigen)); humanized monoclonal antibody; γ 4 heavy chain (1-445) [Humanized VH (*Homo sapiens* IGHV1-46*01 (83%) –(IGHD)-IGHJ3*01 (93%)) [8.8.11] (1-118) -*Homo sapiens* IGHG4*01 {hinge[S¹⁰>P(226)]} (119-445)] (132-218')-disulfide with κ light chain (1'-218') [humanized V-KAPPA (*Homo sapiens* IGKV4-1*01 (83%) –IGKJ2*01)[12.3.9] (1'-111') -*Homo sapiens* IGKC*01 (112'-218')]; dimer (224-224':227-227'')-bisdisulfide

STRUCTURAL FORMULA

Heavy chain

QQLVQSGAE	VKKPGSSVKV	SCKASGYSFS	DYYMHWRQA	PGQGLEWMGQ	50
INPTTGGASY	NQKFKGKATI	TVDKSTSTAY	MELSSLRSED	TAVYVCARYY	100
YGRHFDVWQ	GTITVTVSSAS	TKGPSVFPLA	PCSRSTSEST	AALGCLVKDY	150
FPEPVTVSWN	SGALTSGVHT	FPAVLQSSGL	YSLSSVVTVP	SSSLGKTKYT	200
CNVDHKPSNT	KVDRRVESKY	GPPCPPCPAP	EFLGGPSVFL	FPPKPKDTLM	250
ISRTPEVTCV	VVDVSEQEDPE	VQFNWYVDGV	EVHNAKTKPR	EEQFNSTYRV	300
VSVLTVLHQD	WLNQKEYKCK	VSNKGLPSSI	EKTISKAKGQ	PREPQVYTLF	350
PSQEQMKNQ	VSLTCLVKGF	YPSDIAVEWE	SNGQPENNYK	TTPPVLDSDG	400
SFFLYSRLTV	DKSRWQEGNV	FSCVMHEAL	HNHYTQKSLS	LSLGK	455

Light chain

DIVMTQSPDS	LAVSLGERAT	INCKASQSVD	YDGDSYMNWY	QQKPGQPPKL	50'
LIYAASNLES	GVPDRFSGSG	SGTDFTLTIS	SLQAEDVAVY	YCQQSNEDPY	100'
TFGQGTKLEI	KRTVAAPSVF	IFPPSDEQLK	SGTASVVCCL	NNFYPREAKV	150'
QWKVDNALQS	GNSQESVTEQ	DSKDSTYSLS	STLTLSKADY	EKHKVYACEV	200'
THQGLSSPVT	KSFNRGEC				218'

Disulfide bridges

22-96	22"-96"	23'-92'	23'''-92'''	132-218'	132"-218"	138'-198'	138'''-198'''
145-201	145"-201"	224-224"	227-227'''	259-319	259"-319"	365-423	365'''-423'''

Glycosylation sites (N) /

Asn-295 Asn-295"

MOLECULAR FORMULA

C₆₄₄₂H₉₉₁₀N₁₇₀₂O₂₀₅₂S₄₈

MOLECULAR WEIGHT

145.6 kDa

TRADEMARK

None as yet

SPONSOR	Vaccinex, Inc.
CODE DESIGNATIONS	VX15/2503
<u>CAS</u> REGISTRY NUMBER	2097151-87-4
UNII	BPZ4A29SYE
WHO NUMBER	11011

gbk