

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (GH-96) RETIFANLIMAB
 PRONUNCIATION re" ti fan' li mab
 THERAPEUTIC CLAIM Treatment of cancer

CHEMICAL NAMES

1. Immunoglobulin G4, anti-(human programmed cell death protein 1) (humanized monoclonal MGA012 γ 4-chain), disulfide with humanized monoclonal MGA012 κ -chain, dimer
2. Immunoglobulin G4-kappa, anti-[*Homo sapiens* Programmed cell death protein 1 (Protein PD-1; CD279 antigen)]; monoclonal antibody; γ 4 heavy chain humanized (1-445) [VH (*Homo sapiens* IGHV1-46*01 (82%) –(IGHD)-IGHJ4*01 (93%)) [8.8.12] (1-119) -*Homo sapiens* IGHG4*01 {hinge [S¹⁰>P(227)],CH3[K¹⁰⁷>del(446)]} (120-445)] (133-218')-disulfide with κ light chain chimeric (1'-218') [V-KAPPA (*Mus musculus* IGKV3-2*01 (81%) – IGKJ2*01 (92%))/(*Homo sapiens* IGKV3D-11*02 (78%) –IGKJ4*01 (100%))[10.3.9] (1'-111') -*Homo sapiens* IGKC*01 (112'-218')], dimer (225-225":228-228")-bisdisulfide

STRUCTURAL FORMULA

Heavy chains A and C"

QVQLVQSGAE	VKKPGASVKV	SCKASGYSFT	SYWMNWRQA	PGQGLEWIGV	50
IHPSDSETWL	DQKFKDRVTI	TVDKSTSTAY	MELSSLRSED	TAVYYCAREH	100
YGTSPFAYWG	QGTLVTVSSA	STKGPSVFPL	APCSRSTSES	TAALGCLVKD	150
YFPEPVTVSW	NSGALTSGVH	TFPAVLQSSG	LYSLSSVTV	PSSSLGTRTY	200
TCNVDPKPSN	TKVDKRVESK	YGPCCPCPA	PEFLGGPSVF	LFPPKPKDNL	250
MISRTPEVTC	VVVDVTSQEDP	EVQFNWYVDG	VEVHNAKTKP	REEQFNSTYR	300
VVSVLTVLHQ	DWLNGKEYKC	KVSNKGLPSS	IEKTIKAKG	QPREPQVYTL	350
PPSQEEMTKN	QVSLTCLVKG	FYPSDIAVEW	ESNGQPENNY	KTTTPVLDSD	400
GSFFLYSRLT	VDKSRWQEGN	VFSCSVMHEA	LHNHYTQKSL	SLSLG	445

Light chain B'and D"

EIVLTQSPAT	LSLSPGERAT	LSCRASESVD	NYGMSFMNWF	QQKPGQPPKL	50'
LIHAASNQGS	GVPSRFSGSG	SGTDFTLTIS	SLEPEDFAVY	FCQQSKEVPY	100'
TFGGGTKVEI	KRTVAAPSVF	IFPPSDEQLK	SGTASVVCLL	NNFYPREAKV	150'
QWKVDNALQS	GNSQESVTEQ	DSKIDSTYSL	STLTLSKADY	EKHKQYACEV	200'
THQGLSSPVT	KSFNRGEC				218'

Disulfide bridges location

22-96	22"-96"	23'-92'	23"-92"	133-218'	133"-218"	138'-198'	138"-198"
146-202	146"-202"	225-225"	228-228"	260-320	260"-320"	366-424	366"-424"

Glycosylation sites (N)

Asn-296 Asn-296"

MOLECULAR FORMULA C₆₄₅₆H₉₉₃₄N₁₇₀₂O₂₀₃₂S₄₆ . (non glycosylated)

MOLECULAR WEIGHT 145.38 kDa (non glycosylated)

TRADEMARK None as yet

SPONSOR	Incyte Corp.
CODE DESIGNATIONS	INCMGA00012, MGA012, AEX1188
<u>CAS</u> REGISTRY NUMBER	2079108-44-2
UNII	2Y3T5IF01Z
WHO NUMBER	11095

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