

December 25, 2013

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (AB-117) ABRILUMAB

PRONUNCIATION a bril' ue mab

THERAPEUTIC CLAIM Treatment of inflammatory bowel disease, ulcerative colitis, Crohn's disease

CHEMICAL NAMES

1. Immunoglobulin G, anti-(human integrin $\alpha 4\beta 7$) (human monoclonal heavy chain), disulfide with human monoclonal light chain, dimer
2. Immunoglobulin G2-kappa, anti-(human integrin alpha-4/beta-7 (Peyer patches-specific homing receptor LPAM-1)); human monoclonal antibody; $\gamma 2$ heavy chain (1-444) [human VH (IGHV1-24*01 (94.9%) –(IGHD)-IGHJ5*02) [8.8.11] (1-118) –IGHG2*01 (119-444)], (132-214')-disulfide with κ light chain (1'-214') [human V-KAPPA (IGKV1D-12*01 (95.8%) –IGKJ1*01) [6.3.9] (1'-107') –IGKC*01 (108'-214')] dimer (220-220":221-221":224-224":227-227")-tetrakisdisulfide

STRUCTURAL FORMULA

Heavy chain

QVQLVQSGAE	VKKPGASVKV	SCKVSGYTLS	DLSIHWVRQA	PGKGLEWMGG	50
FDPQDGETIY	AQKFQGRVTM	TEDTSTDTAY	MELSSLKSED	TAVYYCATGS	100
SSSWFDPWGQ	GTLVTVSSAS	TKGPSVFPLA	PCSRSTSEST	AALGCLVKDY	150
FPEPVTVSWN	SGALTSGVHT	FPAVLQSSGL	YSLSSVVTVP	SSNFGTQTYT	200
CNVDHKPSNT	KVDKTVERKC	CVECPPCPAP	PVAGPSVFLF	PPKPKDTLMI	250
SRTPEVTCVV	VDVSHEDPEV	QFNWYVDGVE	VHNAKTKPRE	EQFNSTFRVV	300
SVLTVVHQDW	LNGKEYKCKV	SNKGLPAPIE	KTISKTKGQP	REPQVYTLPP	350
SREEMTKNQV	SLTCLVKGfy	PSDIAVEWES	NGQPENNYKT	TPPMLDSDGS	400
FFLYSKLTVD	KSRWQQGNVF	SCSVMHEALH	NHYTQKLSLSL	SPGK	444

Light chain

DIQMTQSPSS	VSASVGDRVVT	ITCRASQGIS	SWLAWYQQKP	GKAPKLLIYG	50'
ASNLESGVPS	RFSGSGSGTD	FTLTISSLQP	EDFANYCQQ	ANSFPWTFGQ	100'
GTKVEIKRTV	AAPSVFIFPP	SDEQLKSGTA	SVVCLLNNFY	PREAKVQWKV	150'
DNALQSGNSQ	ESVTEQDSKD	STYLSSTLT	LSKADYEKHK	VYACEVTHQG	200'
LSPVTKSfFN	RGEC				214'

Disulfide bridges

22-96	22"-96"	23'-88'	23"-88"	132-214'	132"-214"
134'-194'	134"-194"	145-201	145"-201"	220-220"	221-221"
224-224"	227-227"	258-318	258"-318"	364-422	364"-422"

Glycosylation sites (N)

Asn-294 Asn-294"

MOLECULAR FORMULA $C_{6362}H_{9806}N_{1686}O_{2014}S_{52}$

MOLECULAR WEIGHT 143.8 kDa (peptide)

TRADEMARK None as yet

SPONSOR

MedImmune

CODE DESIGNATIONS

MEDI7183, AMG 181

CAS REGISTRY NUMBER

1342290-43-0

WHO NUMBER

9921

gbk