

November 24, 2015

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (CD-125)	BRAZIKUMAB
PRONUNCIATION	bra zik' ue mab
THERAPEUTIC CLAIM	Treatment of Crohn's disease

CHEMICAL NAMES

1. Immunoglobulin G2, anti-(human interleukin 23) (human monoclonal MEDI2070 heavy chain), disulfide with human monoclonal MEDI2070 λ -chain, dimer
2. Immunoglobulin G2-lambda, anti-(human interleukin-23 (IL-23)); human monoclonal antibody: γ 2 heavy chain (1-450) [human VH (*Homo sapiens* IGHV3-33*01 (99%) –(IGHD)-IGHJ3*02) [8.8.17] (1-124) -*Homo sapiens* IGHG2*01 (125-450)] (138-216')-disulfide with lambda light chain (1'-217') [human V-LAMBDA (*Homo sapiens* IGLV1-40*01 (96%) -IGLJ3*02 (92%)) [9.3.11] (1'-111') -*Homo sapiens* IGLC2*01 (112'-217')], dimer (226-226":227-227":230-230":233-233")-tetrakisdisulfide

STRUCTURAL FORMULA

Heavy chain

QVQLVESGGG	VVQPGRSRLRL	SCAASGFTFS	SYGMHWVQA	PGKGLEWVAV	50
IWYDGSNEY	ADSVKGRFTI	SRDNSKNTLY	LQMNSLRAED	TAVYYCARDR	100
GYTSSWYPDA	FDIWGQGMV	TVSSASTKGP	SVFPLAPCSR	STSESTAALG	150
CLVKDYFPEP	VTVSWNSGAL	TSGVHTFPAV	LQSSGLYSLS	SVVIVPSSNF	200
GTQTYTCNVD	HKPSNTKVDK	TVERKCCVEC	PPCPAPPVAG	PSVFLFPPKP	250
KDTLMISRTP	EVTCVVVDVS	HEDPEVQFNW	YVDGVEVHNA	KTKPREEQFN	300
STFRVSVLT	VVHQDWLNGK	EYKCKVSNKG	LPAPIEKTIS	KTKGQPREPQ	350
VYTLPPSREE	MTKNQVSLTC	LVKGFYPSDI	AVEWESNGQP	ENNYKTTTPM	400
LDSDGSFFLY	SKLTVDKSRW	QQGNVFCSSV	MHEALHNYT	QKSLSLSPGK	450

Light chain

QSVLTQPPSV	SGAPGQRVTI	SCTGSSSNTG	AGYDVHWYQQ	VPGTAPKLLI	50'
YGSNRPSPV	PDRFSGSKSG	TSASLAITGL	QAEDADYYC	QSYDSSLGSGW	100'
VFGGTRLTV	LGQPKAAPSV	TLFPPSSEEL	QANKATLVCL	ISDFYPGAVT	150'
VAWKADSSPV	KAGVETTPS	KQSNKYAAS	SYLSLTPEQW	KSHRSYSCQV	200'
THEGSTVEKT	VAPTECS				217'

Disulfide bridges

22-96	22'-90"	22"-96"	22'''-90'''	138-216'	138"-216"
139'-198'	139'''-198'''	151-207	151"-207"	226-226'	227-227"
230-230"	233-233"	264-324	264"-324"	370-428	370"-428"

Glycosylation sites (N)

Asn-300 Asn-300'

MOLECULAR FORMULA

 $C_{6410}H_{9830}N_{1718}O_{2016}S_{50}$ (peptide)

MOLECULAR WEIGHT

144.8 kDa (peptide)

TRADEMARK	None as yet
SPONSOR	MedImmune
CODE DESIGNATIONS	MEDI2070
<u>CAS</u> REGISTRY NUMBER	1610353-18-8
UNII	50EI9G8Q6U
WHO NUMBER	10425

gbk