

June 26, 2013

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (AB-27)

ADUCANUMAB

PRONUNCIATION

a" due kan' ue mab

THERAPEUTIC CLAIM

Treatment of Alzheimer's disease

CHEMICAL NAMES

1. Immunoglobulin G1, anti-(human β -amyloid) (human monoclonal BIIB037 heavy chain), disulfide with human monoclonal BIIB037 κ -chain, dimer
2. Immunoglobulin G1-kappa, anti-[human amyloid beta A4 protein(ABPP, APPI, Alzheimer disease amyloid protein, cerebral vascular amyloid peptide, protease nexin-II)], *Homo sapiens* monoclonal antibody; gamma 1 heavy chain (1-453) [*Homo sapiens* VH (IGHV3-33*01 Q1>pyroGlu(1) (93.9%)-(IGHD)-IGHJ6*03) [8.8.17] (1-124)-IGHG1*03 des-CH3K¹⁰⁷ (125-453)], (227-214')-disulfide with kappa light chain (1'-214') [*Homo sapiens* V-KAPPA (IGKV1D-39*01 (100%)-IGKJ4*01) [6.3.9] (1'-107')-IGKC*01 (108'-214')]; dimer (233-233":236-236")-bisdisulfide

STRUCTURAL FORMULA

Heavy chain

<u>Q</u> VQLVESGGG	VVQPGRSLRL	SCAASGF AFS	SYGMHWV RQA	PGKGLEWVAV	50
IWFDGTTKYY	TDSVKG RFTI	SRDNSKNTLY	LQMNTLRAED	TAVYYCARDR	100
GIGARRGPYY	MDVWKG GTTV	TVSSASTKGP	SVFPLAPSSK	STSGGTAALG	150
CLVKDYFPEP	VTVSWNSGAL	TSGVHTFPAV	LQSSGLYSL S	SVVTVPSSSL	200
GTQTYICNVN	HKPSNTKVDK	RVEPKSCDKT	HTCPPCPAPE	LLGGPSVFLF	250
PPKPKDTLMI	SRTPEVTCVV	VDVSHEDPEV	KFNWYVDGVE	VHNAKTKPRE	300
EQYNSTYRVV	SVLTVLHQDW	LNGKEYKCKV	SNKALPAPIE	KTISKAKGQP	350
REPQVYTLPP	SREEMTKNQV	SLTCLVKGFY	PSDIAVEWES	NGQPENNYKT	400
TPPVLDSDGS	FFLYSKLTVD	KSRWQQGNVF	SCSVMHEALH	NHYTQKLSLSL	450
SPG					453

Light chain

DIQMTQSPSS	LSASVGRVVT	ITCRASQ SIS	SYLNWYQQKP	GKAPKLLIYA	50'
ASSLQSGVPS	RFSGSGSGTD	F ^T LT ^I SSLQ ^P	EDFATYYCQQ	SYSTPLTFGG	100'
GTKVEIKRTV	AAPSVFIFPP	SDEQLKSGTA	SVVCLLNNFY	PREAKVQWKV	150'
DNALQSGNSQ	ESVTEQDSKD	STYLSLSTLT	LSKADYEKHK	VYACEVTHQG	200'
LSSPVTKSFN	RGEC				214'

Disulfide bridges

22'-96"	22"-96"	23'-88"	23"-88"	134'-194'	134"-194"	151-207	151"-207"
214'-227	214"-227"	233-233"	236-236"	268-328	268"-328"	374-432	374"-432"

Modified residues



Glycosylation sites (N)

Asn-304 Asn-304"

ADUCANUMAB

N13

Page 2 of 2

64

MOLECULAR FORMULA

$C_{6472}H_{10028}N_{1740}O_{2014}S_{46}$

MOLECULAR WEIGHT

145.9 kDa

TRADEMARK

None as yet

SPONSOR

Biogen Idec Inc.

CODE DESIGNATIONS

BIIB037

CAS REGISTRY NUMBER

1384260-65-4

WHO NUMBER

9838

gbk