

November 26, 2014

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (BC-06) OPICINUMAB

PRONUNCIATION oh" pi sin' ue mab

THERAPEUTIC CLAIM Treatment of multiple sclerosis

CHEMICAL NAMES

1. Immunoglobulin G1, anti-(human protein LINGO-1) (human BIIB033 heavy chain), disulfide with human BIIB033 light chain, dimer
2. Immunoglobulin G1-kappa, anti-(human leucine-rich repeat and immunoglobulin-like domain-containing nogo receptor-interacting protein 1 (leucine-rich repeat neuronal protein 1, leucine-rich repeat neuronal protein 6A)); human monoclonal antibody: γ 1 heavy chain (1-447) [human VH (IGHV3-23*01 (92%) –IGHJ3*02 [8.8.11] (1-118)) –IGHG1*01 CH2 T⁶⁹>A(300) CH3 K¹⁰⁷>-(448) (119-447)] (221-215')-disulfide with κ light chain (1'-215') [human V-KAPPA (IGKV3-11*01 (97%) –IGKJ2*01 [6.3.10] (1'-108')) – IGKC*01 (109'-215')] dimer (227-227":230-230")-bisdisulfide, non-glycosylated

STRUCTURAL FORMULA

Heavy chain

EVQLLESGGG	LVQPGGSLRL	SCAASGFTFS	AYEMKWVRQA	PGKGLEWVSV	50
IGPSSGGFTFY	ADSVKGRFTI	SRDNSKNTLY	LQMNSLRAED	TAVYYCATEG	100
DNDAFDIWGQ	GTTVTVSSAS	TKGPSVFPLA	PSSKSTSGGT	AALGCLVKDY	150
FPEPVTVSWN	SGALTSVHT	FPAVLQSSGL	YSLSSVVTVP	SSSLGTQTYI	200
CNVNHNKPSNT	KVDKKVEPKS	CDKTHTCPPC	PAPELLGGPS	VFLFPPKPKD	250
TLMISRTPEV	TCVVVDVSHE	DPEVKFNWYV	DGVEVHNAKT	KPREEQYNSA	300
YRVVSVLTVL	HQDWLNGKEY	KCKVSNKALP	APIEKTISKA	KGQPREPQVY	350
TLPPSRDEL	KNQVSLTCLV	KGFYPSDIAV	EWESNGQPEN	NYKTTTPVLD	400
SDGSFFLYSK	LTVDKSRWQQ	GNVFSCSVHM	EALHNHYTQK	SLSLSPG	447

Light chain

DIQMTQSPAT	LSLSPGERAT	LSCRASQSVS	SYLAWYQQKP	GQAPRLLIYD	50'
ASNRATGIPA	RFSGSGSGTD	FRTLTISSELP	EDFAVYYCQQ	RSNWPMYTFG	100'
QGTKLEIKRT	VAAPSVFIFP	PSDEQLKSGT	ASVVCLLNNF	YPREAKVQWK	150'
VDNALQSGNS	QESVTEQDSK	DSTYLSSTL	TLSKADYEKH	KVYACEVTHQ	200'
GLSSPVTKSF	NRGEC				215'

Disulfide bridges

22-96	22"-96"	23'-88'	23'''-88'''	135'-195'	135'''-195'''	145-201	145"-201"
215'-221	215'''-221'''	227-227"	230-230"	262-322	262"-322"	368-426	368"-426"

MOLECULAR FORMULA $C_{6406}H_{9896}N_{1708}O_{2012}S_{44}$

MOLECULAR WEIGHT 144.4 kDa

TRADEMARK None as yet

SPONSOR Biogen Idec, Inc.

CODE DESIGNATIONS BIIB033

CAS REGISTRY NUMBER 1422268-07-2

UNII WX1WTN0Y15

WHO NUMBER 10090

gbk