

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (BC-154) BIRTAMIMAB

PRONUNCIATION bir tam' i mab

THERAPEUTIC CLAIM Treatment of amyloidosis

CHEMICAL NAMES

1. Immunoglobulin G1, anti-(human serum amyloid A protein/immunoglobulin AL (amyloid light-chain)) (human-*Mus musculus* monoclonal NEOD001 heavy chain), disulfide with human-*Mus musculus* monoclonal NEOD001 κ -chain, dimer
2. Immunoglobulin G1-kappa, anti-(human serum amyloid protein A-1 (SAA)); chimeric human mouse monoclonal antibody: γ 1 heavy chain (1-449) [chimeric VH (*Mus musculus* IGHV10-1*02 (90%) –(IGHD)-IGHJ3*01 (93%)) [8.10.10] (1-119) -*Homo sapiens* IGHG1*03 (120-449)] (222-229')-disulfide with kappa light chain (1'-219') [chimeric V-KAPPA (*Mus musculus* IGKV1-110*01 (91%) – IGKJ1*02 (90%)) [11.3.9] (1'-112') -*Homo sapiens* IGKC*01 (113'-219')]; dimer (228-228":231-231")-bisdisulfide

STRUCTURAL FORMULA

Heavy chain

EVQLVESGGG	LVQPGGSLRL	SCAASGFTFN	TYAMYWIRQA	PGKGLEWVAR	50
IRSKSNYAI	YYADSVKDRF	TISRDDSKNS	LYLQMNLSKT	EDTAVYYCAR	100
PYSDSFAYWG	QGTLVTVSSA	STKGPSVFPL	APSSKSTSGG	TAALGCLVKD	150
YFPEPVTVSW	NSGALTSQVH	TFFPAVLQSSG	LYSLSSVVTV	PSSSLGTQTY	200
ICNVNHKPSN	TKVDKRVPEK	SCDKTHTCPP	CPAPELLGGP	SVFLFPPKPK	250
DTLMISRTP	VTCVVDVSH	EDPEVKFNWY	VDGVEVHNAK	TKPREEQYNS	300
TYRVVSVLTV	LHQDWLNGKE	YKCKVSNKAL	PAPIEKTISK	AKGQPREPQV	350
YTLPPSREEM	TKNQVSLTCL	VKGFYPSDIA	VEWESNGQPE	NNYKTTTPVL	400
DSDGSFFLYS	KLTVDKSRWQ	QGNVFSQSV	HEALHNHYTQ	KSLSLSPGK	449

Light chain

DVVTQSPLS	LPVTPGEPAS	ISCRSSQSLV	HSTGNTYLHW	YLQKPGQSPQ	50'
LLIYKVSNRF	SGVPDRFSGS	GSPTDFTLKI	SRVEAEDVGV	YYCSQSTHVP	100'
FTFGGGTKVE	IKRTVAAPSV	FIFPPSDEQL	KSGTASVCL	LNNFYPREAK	150'
VQWKVDNALQ	SGNSQESVTE	QDSKDYSTSL	SSTLTLSKAD	YEKHKVYACE	200'
VTHQGLSSPV	TKSFNRGEC				219'

Disulfide bridges location

22-98	22"-98"	23'-93'	23"-93"	139'-199'	139"-199"	146-202	146"-202"
219'-222	219"-222"	228-228"	231-231"	263-323	263"-323"	369-427	369"-427"

Glycosylation sites (N)

Asn-299 Asn-299"

MOLECULAR FORMULA $C_{6514}H_{10066}N_{1738}O_{2026}S_{44}$ (peptide)

MOLECULAR WEIGHT 146.6 kDa (non-glycosylated)

TRADEMARK None as yet

SPONSOR	Prothena Biosciences Inc.
CODE DESIGNATIONS	NEOD001, Hu2A4, ELT1-01
<u>CAS</u> REGISTRY NUMBER	1608108-91-3
UNII	VXQ2SK8I3P
WHO NUMBER	10198

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