

July 27, 2016

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (DE-84) AFASEVIKUMAB

PRONUNCIATION a" fa se" vi koo' mab

THERAPEUTIC CLAIM Treatment of multiple sclerosis

CHEMICAL NAMES

1. Immunoglobulin G1, anti-(human interleukin 17 IL-17A/IL-17F) (human monoclonal MCAF5352A heavy chain), disulfide with human monoclonal MCAF5352A light chain, dimer
2. Immunoglobulin G1-kappa, anti-(human interleukin-17A(IL-17A, cytotoxic T-lymphocyte-associated antigen 8, CTLA-8) and human interleukin-17F (IL-17F, cytokine ML-1)); human monoclonal antibody: γ 1 heavy chain (1-453) [*Homo sapiens* VH (IGHV3-9*01 (96%) –(IGHD)-IGHJ2*01 (88%)) [8.8.16] (1-123) -*Homo sapiens* IGHG1*03 (124-453)] (226-215')-disulfide with kappa light chain (1'-215') [*Homo sapiens* V-KAPPA (IGKV3-11*01 (99%) –IGKJ4*01) [6.3.10] (1'-108') -*Homo sapiens* IGKC*01 (109'-215')] dimer (232-232":235-235")-bisdisulfide

STRUCTURAL FORMULA

Heavy chain / Chaîne lourde / Cadena pesada

EVQLVESGGG	LVQPGRSLRL	SCAASGFTFD	DYAMHWVRQA	PGGLEWVSG	50
INWSSGGIGY	ADSVKGRFTI	SRDNAKNSLY	LQMNSLRAED	TALYYCARDI	100
GGFGEFYWNF	GLWGRGTLVT	VSSASTKGPS	VFPLAPSSKS	TSGGTAALGC	150
LVKDYFPEPV	TVSWNSGALT	SGVHTFPAVL	QSSGLYSLSS	VVTVPSSSLG	200
TQTYICNVNH	KPSNTKVDKR	VEPKSCDKTH	TCPPCPAPEL	LGGPSVFLFP	250
PKPKDTLMIS	RTPEVTCVVV	DVSHEDPEVK	FNWYVDGVEV	HNAKTKPREE	300
QYNSTYRVVS	VLTVLHQDWL	NGKEYKCKVS	NKALPAPIEK	TISKAKGQPR	350
EPQVYTLPPS	REEMTKNQVS	LTCLVKGFYP	SDIAVEWESN	GQPENNYKTT	400
PPVLDSDGSF	FLYSKLTVDK	SRWQQGNVFS	CSVMHEALHN	HYTQKSLSL	450
PGK					453

Light chain / Chaîne légère / Cadena ligera

EIVLTQSPAT	LSLSPGERAT	LSCRASQSVR	SYLAWYQQKP	GQAPRLLIYD	50'
ASNRATGIPA	RFSGSGSGTD	FRTLTISSELP	EDFAVYQCQQ	RSNWPPATFG	100'
GGTKVEIKRT	VAAPSVFIFP	PSDEQLKSGT	ASVVCLLNMF	YPREAKVQWK	150'
VDNALQSGNS	QESVTEQDSK	DSTYLSSTL	TLSKADYEEKH	KVYACEVTHQ	200'
GLSSPVTKSF	NRGEC				215'

Disulfide bridges location / Position des ponts disulfure / Posiciones de los puentes disulfuro

22-96	22"-96"	23'-88'	23"-88"	135'-195'	135"-195"	150-206	150"-206"
215'-226	215"-226"	232-232"	235-235"	267-327	267"-327"	373-431	373"-431"

Glycosylation sites (N) / Sites de glycosylation (N) / Posiciones de glicosilación (N)

Asn-303 Asn-303"

MOLECULAR FORMULA

C₆₄₉₂H₁₀₀₂₀N₁₇₅₂O₂₀₀₈S₄₂ (peptide)

MOLECULAR WEIGHT

146.1 kDa (peptide)

TRADEMARK	None as yet
SPONSOR	Genentech/Roche
CODE DESIGNATIONS	RO5553110, RG7624, MCAF5352A
<u>CAS</u> REGISTRY NUMBER	1589503-30-9
UNII	TG8A3DSU6Z
WHO NUMBER	10178

gbk