

# STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (GH-168) SEMORINEMAB

PRONUNCIATION sem" oh rin' e mab

THERAPEUTIC CLAIM Treatment of Alzheimer's disease

CHEMICAL NAMES

1. Immunoglobulin G4, anti-(human tau protein) (human-*Mus musculus* monoclonal RO7105705  $\gamma$ 4-chain), disulfide with human-*Mus musculus* monoclonal RO7105705  $\kappa$ -chain, dimer
2. Immunoglobulin G4-kappa, anti-(*Homo sapiens* Microtubule-associated protein tau (Neurofibrillary tangle protein, Paired helical filament-tau, PHF-tau)); monoclonal antibody;  $\gamma$ 4 heavy chain (1-444) [VH (*Homo sapiens*IGHV3-23\*03 (89%) –(IGHD)-IGHJ4\*01) [8.8.10] (1-117)-*Homo sapiens*IGHG4\*01 {hinge[S<sup>10</sup>>P(225)], CH2[M<sup>22</sup>>Y(249),S<sup>24</sup>>T(251),T<sup>26</sup>>E(253)]} (118-444)], (131-219')-disulfide with  $\kappa$  light chain (1'-219') [V-KAPPA (*Mus musculus*IGKV1-117\*01 (90%) –IGKJ1\*01 (83%) [11.3.10]/*Homo sapiens*IGKV2-40\*01 (85%) –IGKJ1\*01 [11.3.9]) (1'-112') -*Homo sapiens*IGKC\*01 (113'-219')], dimer (223-223":226-226")-bisdisulfide

## STRUCTURAL FORMULA

### Heavy chain

EVQLVESGGG	LVQPGGSLRL	SCAASGLIFR	SYGMSWVRQA	PGKGLEWVAT	50
INSGGTYYTY	PDSVKGRFTI	SRDNSKNTLY	LQMNSLRAED	TAVYYCANSY	100
SGAMDYWGQG	TLVTVSSAST	KGPSVFPLAP	CSRSTSESTA	ALGCLVKDYF	150
PEPVTVSWNS	GALTSGVHTF	PAVLQSSGLY	SLSSVVTVPS	SSLGKTKYTC	200
NVDHKPSNTK	VDKRVEISKY	PPCPPCPAPE	FLGGPSVFLF	PPKPKDTLYI	250
TREPEVTCVV	VDVSEQEDPEV	QFNWYVDGVE	VHNAKTKPRE	EQFNSTYRVV	300
SVLTVLHQDW	LNGKEYKCKV	SNKGLPSSIE	KTISKAKGQP	REPQVYTLPP	350
SQEEMTKNQV	SLTCLVKGFY	PSDIAVEWES	NGQPENNYKT	TPPVLDSDGS	400
FFLYSRLTVD	KSRWQEGNVF	SCSVMHEALH	NHYTQKLSLSL	SLGK	444

### Light chain

DDVLTQTPLS	LPVTPGQPAS	ISCRSSQSIV	HSNGNTYLEW	YLQKPGQSPQ	50'
LLIYKVSNRF	SGVPDRFSGS	GSPTDFTLKI	SRVEAEDVGV	YYCFQGS LVP	100'
WTFGQGTKE	IKRTVAAPSV	FIFPPSDEQL	KSGTASVCL	LNNFYPREAK	150'
VQWQVDNALQ	SGNSQESVTE	QDSKDYSTYS	SSTLTLSKAD	YEKHKVYACE	200'
VTHQGLSSPV	TKSFNRGEC				219'

### Disulfide bridges

22-96	22"-96"	23'-93'	23""-93""	131-219'	131""-219""	139'-199'	139""-199""
144-200	144"-200"	223-223"	226-226"	258-318	258""-318""	364-422	364""-422""

### Glycosylation sites (N)

Asn-294 Asn-294'

MOLECULAR FORMULA C<sub>6454</sub>H<sub>9946</sub>N<sub>1710</sub>O<sub>2026</sub>S<sub>42</sub> (non-glycosylated)

MOLECULAR WEIGHT 145.3 kDa (non-glycosylated)

TRADEMARK None as yet

SPONSOR	Genentech/Roche
CODE DESIGNATIONS	RO7105705, MTAU9937A
<u>CAS</u> REGISTRY NUMBER	2159141-27-0
UNII	O8DG8VI95O
WHO NUMBER	11024

gbk