

July 30, 2014

## STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (BC-136) SERIBANTUMAB

PRONUNCIATION ser" i bant' ue mab

THERAPEUTIC CLAIM Treatment of cancer

## CHEMICAL NAMES

1. Immunoglobulin G2a, anti-(human neuregulin receptor HER3) (human monoclonal MM-121 heavy chain), disulfide with human monoclonal MM-121  $\lambda$ -chain, dimer
2. Immunoglobulin G2-lambda7, anti-[*Homo sapiens* ERBB3 (receptor tyrosine-protein kinase erbB-3, HER3)], *Homo sapiens* monoclonal antibody; gamma2 heavy chain (1-445) [*Homo sapiens* VH (IGHV3-23\*01 (90.80%) -(IGHD)-IGHJ4\*01) [8.8.12] (1-119) -IGHG2\*01 (CH1 (120-217), hinge (218-229), CH2 (230-338), CH3 (339-443), CHS (444- 445)) (120-445)], (133-216')-disulfide with lambda light chain (1'- 217') [*Homo sapiens* V-LAMBDA (IGLV2-23\*02 (94.90%) -IGLJ2\*01 L9>V (108) [9.3.11] (1'-111') -IGLC7\*01 (100.00%) (112'-217')]; dimer (221-221":222-222":225-225":228-228")-tetrakisdisulfide

## STRUCTURAL FORMULA

## Heavy chain

EVQLLESGGG	LVQPGGSLRL	SCAASGFTFS	HYVMAWVRQA	PGKGLEWVSS	50
ISSSGGWTLY	ADSVKGRFTI	SRDNSKNTLY	LQMNSLRAED	TAVYYCTRGL	100
KMATIFDYWG	QGTLVTVSSA	STKGPSVFPL	APCSRSTSES	TAALGCLVKD	150
YFPEPVTVSW	NSGALTSVH	TFPAVLQSSG	LYSLSSVVTV	PSSNFGTQTY	200
TCNVDHKPSN	TKVDKTVK	CCVECPPCPA	PPVAGPSVFL	FPPKPKDTLM	250
ISRTPEVTCV	VVDVSHEDPE	VQFNWYVDGV	EVHNAKTKPR	EEQFNSTFRV	300
VSVLTVVHQD	WLNKKEYKCK	VSNKGLPAPI	EKTISKTKGQ	PREPQVYTL	350
PSREEMTKNQ	VSLTCLVKGF	YPSDIAVEWE	SNGQPENNYK	TTPPMLDSG	400
SFFLYSKLTV	DKSRWQQGNV	FSCSVMHEAL	HNHYTQKSLS	LSPGK	445

## Light chain

QSALTQPASV	SGSPGQSITI	SCTGTSSDVG	SYNVVSWYQQ	HPGKAPKLII	50'
YEVSQRPSGV	SNRFGSKSG	NTASLTISGL	QTEDEADYYC	CSYAGSSIFV	100'
IFGGGTKVTV	LGQPKAAPSV	TLFPPSSEEL	QANKATLVCL	VSDFYPGAFT	150'
VAWKADGSPV	KVGVEETKPS	KQSNNKYAAS	SYLSLTPEQW	KSHRSYSCR	200'
THEGSTVEKT	VAPAEC				217'

## Disulfide bridges

22'-90'	22'''-90'''	22-96	22-'-96''	139'-198'	139'''-198'''	133-216'	133''-216''
146-202	146''-202''	221-221''	222-222''	225-225''	228-228''	259-319	259''-319''
365-423	365''-423''						

MOLECULAR FORMULA	$C_{6340}H_{9810}N_{1690}O_{1986}S_{52}$
MOLECULAR WEIGHT	143.2 kDa
TRADEMARK	None as yet
SPONSOR	Sanofi/Merrimack Pharmaceuticals, Inc.
CODE DESIGNATIONS	SAR256212, MM121
<u>CAS</u> REGISTRY NUMBER	1334296-12-6
UNII	1N3L70MDFX
WHO NUMBER	9710

gbk