

November 28, 2012

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (ZZ-147) MARGETUXIMAB

PRONUNCIATION mar" je tux' i mab

THERAPEUTIC CLAIM Treatment of cancer

CHEMICAL NAMES

1. Immunoglobulin G1, anti-(human neu (receptor)) (human-*Mus musculus* monoclonal MGAH22 clone ch4D5 heavy chain), disulfide with human-*Mus musculus* monoclonal MGAH22 clone ch4D5 light chain, dimer
2. Immunoglobulin G1, anti-(human receptor tyrosine-protein kinase erbB-2 (MLN 19, proto-oncogene Neu, proto-oncogene c-ErbB-2, tyrosine kinase-type cell surface receptor HER2, CD340)); chimeric human/mouse monoclonal MGAH22 clone ch4D5 [238-L-valine(CH2⁵-L>V),246-L-leucine(CH2¹³-F>L),295-L-proline(CH2⁶²-R>P),303-L-leucine(CH2⁷⁰-Y>L),399-L-leucine(CH3⁵⁶-P>L)] γ 1 heavy chain (223-214')-disulfide with chimeric human/mouse monoclonal MGAH22 clone ch4D5 κ light chain dimer (229-229":232-232")-bisdisulfide

STRUCTURAL FORMULA

Heavy chain

QVQLQQSGPE	LVKPGASLKL	SCTASGFNIK	DTYIHVVKQR	PEQGLEWIGR	50
IYPTNGYTRY	DPKFDKATI	TADTSSNTAY	LQVSRILTSED	TAVYYCSRWG	100
GDGFYAMDYW	GQGASVTVSS	ASTKGPSVFP	LAPSSKSTSG	GTAALGCLVK	150
DYFPEPVTVS	WNSGALTSKV	HTFPAVLQSS	GLYSLSSVVT	VPSSSLGTQT	200
YICNVNHHKPS	NTKVDKRVEP	KSCDKTHTCP	PCPAPELVGG	PSVFLLPKP	250
KDTLMISRTP	EVTCVVVDVS	HEDPEVKFNW	YVDGVEVHNA	KTKPPEEQYN	300
STLRVVSFLT	VLHQDWLNGK	EYKCKVSNKA	LPAPIEKTIS	KAKGQPREPQ	350
VYTLPPSRDE	LTKNQVSLTC	LVKGFYPSDI	AVEWESNGQP	ENNYKTTPLV	400
LDSGGSFFLY	SKLTVDKSRW	QQGNVFSCSV	MHEALHNNHYT	QKSLSLSPGK	450

Light chain

DIVMTQSHKF	MSTSVGDRVS	ITCKASQDVN	TAVAWYQQKP	GHSPKLLIYS	50'
ASFRYTGVPD	RFTGSRSGTD	FTFTLSSVQA	EDLAVYYCQQ	HYTTPPTFGG	100'
GTKVEIKRTV	AAPSVFIFPP	SDEQLKSGTA	SVVCLLNNFY	PREAKVQWKV	150'
DNALQSGNSQ	ESVTEQDSKD	STYSLSSLT	LSKADYEKHK	VYACEVTHQG	200'
LSSPVTKSFN	RGEC				214'

Disulfide bridges

22-96	22"-96"	23'-88'	23"-88"	134'-194'	134"-194"	147-203	147"-203"
214'-223	214"-223"	229-229"	232-232"	264-324	264"-324"	370-428	370"-428"

Glycosylation sites (N)

Asn-300 Asn-300"

MOLECULAR FORMULA

C₆₄₈₄H₁₀₀₁₀N₁₇₂₆O₂₀₂₄S₄₂

MARGETUXIMAB

N12

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MOLECULAR WEIGHT

145.9 kDa

TRADEMARK

None as yet

SPONSOR

MacroGenics, Inc.

CODE DESIGNATIONS

MGAH22

CAS REGISTRY NUMBER

1350624-75-7

WHO NUMBER

9799

gbk