

July 27, 2016

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (DE-124) MODOTUXIMAB

PRONUNCIATION moe" doe tux' i mab

THERAPEUTIC CLAIM Treatment of cancer

CHEMICAL NAMES

1. Immunoglobulin G1, anti-(human epidermal growth factor receptor extracellular domain III) (human-*Mus musculus* monoclonal 1024 DS heavy chain), disulfide with human-*Mus musculus* monoclonal 1024 DS light chain, dimer
2. Immunoglobulin G1-kappa, anti-(human epidermal growth factor receptor (proto-oncogene c-ErbB-1, receptor tyrosine-protein kinase erbB-1, EC=2.7.10.1)); human mouse chimeric monoclonal antibody: γ 1 heavy chain (1-448) [*Mus musculus* VH (IGHV1S81*02 (92%) –(IGHD)-IGHJ4*01 [8.8.12] (1-119) -*Homo sapiens* IGHG1*03{CH3 K¹⁰⁷ >-(449)} (120-448)] (222-219')-disulfide with kappa light chain (1'-219') [*Mus musculus* V-KAPPA (IGKV2-109*01-IGKJ2*01) [11.3.9] (1'-112') -*Homo sapiens* IGKC*01 (113'-219')] dimer (228-228":231-231")-bisdisulfide

STRUCTURAL FORMULA

Heavy chain / Chaîne lourde / Cadena pesada

QVQLQQPGAE	LVEPGGSVKL	SCKASGYTFT	SHWMHWVKQR	PGQGLEWIGE	50
INPSSGRNNY	NEKFKSKATL	TVDKSSSTAY	MQFSSLTSED	SAVYYCVRY	100
GYDEAMDYWG	QGTSVTVSSA	STKGPSVFPL	APSSKSTSGG	TAALGCLVKD	150
YFPEPVTVSW	NSGALTSGVH	TFFPAVLQSSG	LYSLSSVTV	PSSSLGTQTY	200
ICNVNHKPSN	TKVDKRVEPK	SCDKTHTCPP	CPAPELLGGP	SVFLFPPKPK	250
DTLMISRTP	VFCVVVDVSH	EDPEVKFNWY	VDGVEVHNAK	TKPREEQVNS	300
TYRVVSVLTV	LHQDWLNGKE	YKCKVSNKAL	PAPIEKTISK	AKGQPREPQV	350
YTLPPSREEM	TKNQVSLTCL	VKGFYPSDIA	VEWESNGQPE	NNYKTTTPVL	400
DSDGSFFLYS	KLTVDKSRWQ	QGNVFSCSVM	HEALHNHYTQ	KSLSLSPG	448

Light chain / Chaîne légère / Cadena ligera

DIVMTQAAFS	NPVTLGTSAS	ISCRSSKSL	HSNGITYLYW	YLQKPGQSPQ	50'
LLLYQMSNLA	SGVPRDFSSS	GSGTDFTLRI	SRVEAEDVGV	YYCAQNLELP	100'
YTFGGGTKLE	IKRTVAAPSV	FIFPPSDEQL	KSGTASVVC	LNNFYPREAK	150'
VQWKVDNALQ	SGNSQESVTE	QDSKDSYSL	SSTLTLSKAD	YEKHKVYACE	200'
VTHQGLSSPV	TKSFNRGEC				219'

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

22-96	22"-96"	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) / Sites de glycosylation (N) / Posiciones de glicosilación (N)

Asn-299 Asn-299"

MOLECULAR FORMULA

C₆₅₀₀H₁₀₀₂₂N₁₇₂₂O₂₀₄₀S₄₈ (protein)

MOLECULAR WEIGHT	146.5 kDa (protein)
TRADEMARK	None as yet
SPONSOR	Symphogen A/S
CODE DESIGNATIONS	1024 DS
<u>CAS</u> REGISTRY NUMBER	1310460-86-6
UNII	1W7BD1M08N
WHO NUMBER	9613

gbk