

May 26, 2016

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (DE-72) OLECLUMAB

PRONUNCIATION oh lek' lue mab

THERAPEUTIC CLAIM Treatment of pancreatic and colorectal cancer

CHEMICAL NAMES

1. Immunoglobulin G1, anti-(human 5'-nucleotidase) (human monoclonal MEDI9447 heavy chain), disulfide with human monoclonal MEDI9447 λ -chain, dimer
2. Immunoglobulin G1-lambda, anti-(human 5'-nucleotidase (ecto-5'-nucleotidase, 5'-NT, EC=3.1.3.5, CD73 antigen)); human monoclonal antibody: γ 1 heavy chain (1-447) [human VH (*Homo sapiens* IGHV3-23*01 (97%) –(IGHD)-IGHJ1*01 (91%)) [8.8.10] (1-117) -*Homo sapiens* IGHG1*03 {CH2 L⁴>F(234), L⁵>E(235), P¹⁰¹>S(331)} (118-447)], (220-215')-disulfide with λ light chain (1'-216') [human V-LAMBDA (*Homo sapiens* IGLV1-44*01 (90%) –IGLJ2*01) [8.3.11] (1'-110') -*Homo sapiens* IGLC2*01 (111'-216')]; dimer (226-226":229-229")-bisdisulfide

STRUCTURAL FORMULA

Heavy chain

EVQLLESGGG	LVQPGGSLRL	SCAASGFTFS	SYAYSWVRQA	PGKGLEWVSA	50
ISGSGGRFTYY	ADSVKGRFTI	SRDNSKNTLY	LQMNSLRAED	TAVYYCARLG	100
YGRVDEWGRG	TLVTVSSAST	KGPSVFLPLA	SSKSTSGGTA	ALGCLVKDYF	150
PEPVTVSWNS	GALTSGVHTF	PAVLQSSGLY	SLSSVVTVPS	SSLGTQTYIC	200
NVNHKPSNTK	VDKRVEPKSC	DKTHTCPPCP	APEFEGGPSV	FLFPPKPKDT	250
LMISRTPEVT	CVVVDVSHED	PEVKFNWYVD	GVEVHNAKTK	PREQYNSTY	300
RVVSVLTVLH	QDWLNGKEYK	CKVSNKALPA	SIEKTISKAK	GQPREPQVYT	350
LPPSREEMTK	NQVSLTCLVK	GFYPSDIAVE	WESNGQPENN	YKTTTPVLDS	400
DGSFFLYSKL	TVDKSRWQQG	NVFSCVMHE	ALHNHYTQKS	LSLSPGK	447

Light chain

QSVLTQPPSA	SGTPGQRVTI	SCSGSLSNIG	RNPVNWYQQL	PGTAPKLLIY	50'
LDNLRLSGVP	DRFSGSKSGT	SASLAISGLQ	SEDEADYYCA	TWDDSHPGWT	100'
FGGGTKLTVL	GQPKAAPSVT	LFPPSSEELQ	ANKATLVCLI	SDFYPGAVTV	150'
AWKADSSPVK	AGVETTPPSK	QSNNKYAASS	YLSLTPEQWK	SHRSYSCQVT	200'
HEGSTVEKTV	APTECS				226'

Disulfide bridges

22'-89'	22"-89"	22-96	22"-96"	138'-197'	138"-197"	144-200	144"-200"
215'-220	215"-220"	226-226"	229-229"	261-321	261"-321"	367-425	367"-425"

Glycosylation sites (N)

Asn-297 Asn-297"

MOLECULAR FORMULA

C₆₃₄₈H₉₈₂₆N₁₇₁₀O₁₉₉₈S₄₀ (peptide)

MOLECULAR WEIGHT	143.35 kDa (peptide)
TRADEMARK	None as yet
SPONSOR	MedImmune/AstraZeneca
CODE DESIGNATIONS	MEDI9447
<u>CAS</u> REGISTRY NUMBER	1803176-05-7
UNII	5CRY01URYQ
WHO NUMBER	10545

gbk