

July 27, 2016

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (de-102) CERGUTUZUMAB
 PRONUNCIATION ser" gue tooz' ue mab
 THERAPEUTIC CLAIM Treatment of cancer

CHEMICAL NAMES

1. Immunoglobulin G1, anti-(human carcinoembryonic antigen) (human monoclonal MAb<CEA> heavy chain 1 (hole)), disulfide with human monoclonal MAb<CEA> light chain, dimer with immunoglobulin G1, anti-(human carcinoembryonic antigen) (human monoclonal MAb<CEA> heavy chain 2 (knob)), disulfide with human monoclonal MAb<CEA> light chain

STRUCTURAL FORMULA

Heavy chain

QVQLVQSGAE	VKKPGASVKV	SCKASGYTFT	EFGMNWVRQA	PGQGLEWMGW	50
INTKTGEATY	VEEFKGRVTF	TTDTSTSTAY	MELRSLRSD	TAVYYCARWD	100
FAYYVEAMDY	WGQGTIVTVS	SASTKGPSVF	PLAPSSKSTS	GGTAALGCLV	150
KDYFPEPVTV	SWNSGALTS	VHTFPAVLQS	SGLYSLSSV	TVPSSSLGTQ	200
TYICNVNHKP	SNTKVDKKVE	PKSCDKTHTC	PPCPAPEAAG	GPSVFLFPPK	250
PKDTLMI	PEVTCVVVDV	SHEDPEVKFN	WYVDGVEVHN	AKTKPREEQY	300
NSTYRVVSVL	TVLHQDWLNG	KEYKCKVSNK	ALGAPIEKTI	SKAKGQPREP	350
QVYTLPPSRD	ELTKNQVSL	CLVKGFYPSD	IAVEWESNGQ	PENNYKTTTP	400
VLDSGDSFFL	YSKLTVDKSR	WQQGNVFSCS	VMHEALHNHY	TQKSLSLSPG	450

Heavy chain H''

QVQLVQSGAE	VKKPGASVKV	SCKASGYTFT	EFGMNWVRQA	PGQGLEWMGW	50
INTKTGEATY	VEEFKGRVTF	TTDTSTSTAY	MELRSLRSD	TAVYYCARWD	100
FAYYVEAMDY	WGQGTIVTVS	SASTKGPSVF	PLAPSSKSTS	GGTAALGCLV	150
KDYFPEPVTV	SWNSGALTS	VHTFPAVLQS	SGLYSLSSV	TVPSSSLGTQ	200
TYICNVNHKP	SNTKVDKKVE	PKSCDKTHTC	PPCPAPEAAG	GPSVFLFPPK	250
PKDTLMI	PEVTCVVVDV	SHEDPEVKFN	WYVDGVEVHN	AKTKPREEQY	300
NSTYRVVSVL	TVLHQDWLNG	KEYKCKVSNK	ALGAPIEKTI	SKAKGQPREP	350
QVYTLPPSRD	ELTKNQVSL	CLVKGFYPSD	IAVEWESNGQ	PENNYKTTTP	400
VLDSGDSFFL	YSKLTVDKSR	WQQGNVFSCS	VMHEALHNHY	TQKSLSLSPG	450

Light chain

DIQMTQSPSS	LSASVGRV	ITCKASAAV	TYVAWYQQK	GKAPKLLIYS	50'
ASyrKRGVPS	RFSGSGSGTD	FTLTISLQ	EDFATYYCHQ	YYTYPLFTFG	100'
QGTKLEIKRT	VAAPSVFIFP	PSDEQLKSGT	ASVVCLLN	YPREAKVQWK	150'
VDNALQSGNS	QESVTEQDSK	DSTYLSSTL	TLSKADYEKH	KVYACEVTHQ	200'
GLSSPVTKSF	NRGEC				215'

Disulfide bridges

22-96	22''-96''	23-88	23'''-88'''	135-195	135'''-195'''	138-204	148''-204''
224-215'	224''-215'''	230-230''	233-233'''	265'326	265'''-325'''	371-429	371''-429''

Glycosylation sites (N)

301	301''
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MOLECULAR FORMULA	$C_{6493}H_{9975}N_{1711}O_{2022}S_{48}$
MOLECULAR WEIGHT	145.9 kDa
TRADEMARK	None as yet
SPONSOR	Genentech/Roche
CODE DESIGNATIONS	RG7813
<u>CAS</u> REGISTRY NUMBER	1622305-37-6
UNII	O2IF0511E8

gbk