

August 26, 2015

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (CD-46)	GALCANEZUMAB
PRONUNCIATION	gal" ka nez' ue mab
THERAPEUTIC CLAIM	Prevention of migraine

CHEMICAL NAMES

1. Immunoglobulin G4, anti-(human calcitonin gene-related peptide) (human-*Mus musculus* clone III heavy chain), disulfide with human-*Mus musculus* clone III k-chain, dimer
2. Immunoglobulin G4-kappa, anti-(human Calcitonin gene-related peptides 1 and 2 (alpha and beta types of CGRP)), humanized mouse monoclonal antibody: $\gamma 4$ heavy chain (1-445) [humanized VH (human IGHV1-69*06 (83%) –(IGHD)-IGHJ6*03 (91%) [8.8.12] (1-119) –human IGHG4*01 [H S¹⁰>P (227); CH2 F⁴>A (233),L⁵>A (234); CH3 K¹⁰⁷del (446)] (120-445)] (133-214')-disulfide with kappa light chain (1'-214') [humanized V-KAPPA (human IGKV1-39*01 (87%) –IGKJ4*01) [6.3.9] (1'-107') –human IGKC*01 (108'-214') dimer (225-225":228-228")-bisdisulfide

STRUCTURAL FORMULA

Heavy chain

QVQLVQSGAE	VKKPGSSVKV	SCKASGYTFG	NYWMQWVRQA	PGQGLEWMGA	50
IYEGTGKTVY	IQKFADRVTI	TADKSTSTAY	MELSSLRSED	TAVYYCARLS	100
DYVSGFGYWG	QGTTVTVSSA	STKGPSVFPL	APCSRSTSES	TAAAGCLVKD	150
YFPEPVTVSW	NSGALTSGVH	TFFPAVLQSSG	LYSLSSVVTV	PSSSLGKTKY	200
TCNVDHKPSN	TKVDKRVESK	YGPPCPPCPA	PEAAGGSPVF	LFPPPKPKDTL	250
MISRTPEVTC	VVVDVSEQEDP	EVQFNWYVDG	VEVHNAKTKP	REEQFNSTYR	300
VVSVLTIVLHQ	DWLNGKEYKC	KVSNKGLPSS	IEKTIKAKG	QPREPQVYTL	350
PPSQEEMTKN	QVSLTCLVKG	FYPSDIAVEW	ESNGQPENNY	KITPPVLDSD	400
GSFFLYSRLT	VDKSRWQEGN	VFSCSVMHEA	LHNHYTQKSL	SLSLG	445

Light chain

DIQMTQSPSS	LSASVGDRTV	ITCRASKDIS	KYLNWYQQKP	GKAPKLLIYY	50'
TSGYHSGVPS	RFSGSGSGTD	FRTLTISLQP	EDFATYYCQQ	GDALPPTFGG	100'
GTKVEIKRTV	AAPSVFIFPP	SDEQLKSGTA	SVVCLLNNFY	PREAKVQWKV	150'
DNALQSGNSQ	ESVTEQDSKD	STYLSSTLT	LSKADYEKHK	VYACEVTHQG	200'
LSSPVTKSFN	RGEC				214'

Disulfide bridges

22-96	22"-96"	23'-88'	23"-88"	133-214'	133"-214"	134'-194'	134"-194"
146-202	146"-202"	225-225"	228-228"	260-320'	260"-320"	366-424'	366"-424"

Glycosylation sites (N)

Asn-296 Asn-296'

MOLECULAR FORMULA

C₆₃₉₂H₉₈₅₄N₁₆₈₆O₂₀₁₈S₄₆ (peptide)

MOLECULAR WEIGHT

144.1 kDa (peptide)

TRADEMARK	None as yet
SPONSOR	Eli Lilly and Company
CODE DESIGNATIONS	LY2951742
<u>CAS</u> REGISTRY NUMBER	1578199-75-3
UNII	55KHL3P693
WHO NUMBER	10277

gbk