

November 24, 2015

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (BC-146) ERENUMAB

PRONUNCIATION e ren' ue mab

THERAPEUTIC CLAIM Prevention of migraine

CHEMICAL NAMES

1. Immunoglobulin G, anti-(human calcitonin gene-related peptide receptor) (human monoclonal heavy chain), disulfide with human monoclonal light chain, dimer
2. Immunoglobulin G2-lambda, anti-(human calcitonin gene-related peptide type 1 receptor (CGRP type 1 receptor; calcitonin receptor-like receptor); human monoclonal antibody: γ 2 heavy chain (1-456) [human VH (IGHV3-30*03–(IGHD)-IGHJ3*01) (94%) [8.8.23] (1-130) –IGHG2*01 (131-456)] (144-215')-disulfide with lambda light chain (1'-216') [human V-LAMBDA (IGLV1-51*01-IGLJ2*01) (98%) [8.3.11] (1'-110') –IGLC1*02 (111'-216')] dimer (232-232":233-233":236-236":239-239")-tetrakisdisulfide

STRUCTURAL FORMULA

Heavy chain

QVQLVESGGG	VVQPGRSRLR	SCAASGFTFS	SFGMHWRQA	PGKGLEWVAV	50
ISFDGSIKYS	VDSVKGRFTI	SRDNSKNTLF	LQMNSLRAED	TAVYYCARDR	100
LNYYDSSGYY	HYKYYGMAVW	GQGTITVTVSS	ASTKGPSVFP	LAPCSRSTSE	150
STAALGCLVK	DYFPEPVTVS	WNSGALTSKV	HTFPAVLQSS	GLYSLSSVVT	200
VPSSNFGTQT	YTCNVDHKPS	NTKVDKTVR	KCCVECPVCP	APPVAGPSVF	250
LFPPKPKDNL	MISRTPEVTC	VVVDVSHEDP	EVQFNWYVDG	VEVHNAKTKP	300
REEQFNSTFR	VVSVLTVVHQ	DWLNGKEYKC	KVSNKGLPAP	IEKTIKTKG	350
QPREPQVYTL	PPSREEMTKN	QVSLTCLVKG	FYPVDIAVEW	ESNGQPENNY	400
KTTTPMLDSD	GSFFLYSKLT	VDKSRWQQGN	VFSCSVMHEA	LHNHYTQKSL	450
SLSPGK					456

Light chain

QSVLTQPPSV	SAAPGQKVTI	SCSGSSSNIG	NNYVSWYQQL	PGTAPKLLIY	50'
DNNKRPSGIP	DRFSGSKSGT	STTLGITGLQ	TGDEADYYCG	TWDSRLSAVV	100'
FGGGTKLTVL	GQPKANPTVT	LFPPSSEELQ	ANKATLVCLI	SDFYPGAVTV	150'
AWKADGSPVK	AGVETTKPSK	QSNKYAASS	YLSLTPEQWK	SHRSYSCQVT	200'
HEGSTVEKTV	APTECS				216'

Disulfide bridges

22'-89'	22"-89"	22-96	22"-96"	138'-197'	138"-197"
144-215'	144"-215"	157-213	157"-213"	232-232"	233-233"
236-236"	239-239"	270-330	270"-330"	376-434	376"-434"

Glycosylation sites (N)

Asn-306 Asn-306'

MOLECULAR FORMULA

C₆₄₇₂H₉₉₆₄N₁₇₂₈O₂₀₁₈S₅₀ (peptide)

MOLECULAR WEIGHT

145.9 kDa (peptide)

TRADEMARK	None as yet
SPONSOR	Amgen Inc.
CODE DESIGNATIONS	AMG 334
<u>CAS</u> REGISTRY NUMBER	1582205-90-0
UNII	I518VB78VT
WHO NUMBER	10296

gbk