

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (FG-93) FREMANEZUMAB
 PRONUNCIATION fre'' ma nez' ue mab
 THERAPEUTIC CLAIM Treatment of migraine

CHEMICAL NAMES

1. Immunoglobulin G2, anti-(human α -calcitonin gene-related peptide/ β -calcitonin gene-related peptide) (human-Mus musculus monoclonal TEV-48125 heavy chain), disulfide with human-Mus musculus monoclonal TEV-48125 light chain, dimer
2. Immunoglobulin G2-kappa, anti-(*Homo sapiens* Calcitonin gene-related peptide 1 (CGRP-I)); humanized monoclonal antibody; γ 2 heavy chain (1-448) [humanized VH (*Homo sapiens* IGHV3-7*01 (86%) -(IGHD)-IGHJ5*01) [8.10.13] (1-122) -*Homo sapiens* IGHG2*01 {CH2[A¹⁰⁰>S(331),P¹⁰¹>S(332)]} (123-448)] (136-214')-disulfide with κ light chain (1'-214') [humanized V-KAPPA (*Homo sapiens* IGKV3-11*01 (85%) -IGKJ2*01)[6.3.9] (1'-107') -*Homo sapiens* IGKC*01 (108'-214')], dimer (224-224'':225-225'':228-228'':231-231'')-tetrakisdisulfide

STRUCTURAL FORMULA

Heavy chain

EVQLVESGGG	LVQPGGSLRL	SCAASGFTFS	NYWISWVRQA	PGKLEWVAE	50
IRSESDASAT	HYAEAVKGRF	TISRDNAKNS	LYLQMNSLRA	EDTAVYYCLA	100
YFDYGLAIQN	YWQQGTLVTV	SSASTKGPSV	FPLAPCSRST	SESTAALGCL	150
VKDYFPEPVT	VSWNSGALTS	GVHTFPAVLQ	SSGLYSLSSV	VTVPSSNFGT	200
QTYTCNVDHK	PSNTKVDKTV	ERKCCVECPP	CPAPPVAGPS	VFLFPPKPKD	250
TLMISRTPEV	TCVVVDVSH	DPEVQFNWYV	DGVEVHNAKT	KPREEQFNST	300
FRVVSVLTVV	HQDWLNGKEY	KCKVSNKGLP	SSIIEKISKT	KGQPREPQVY	350
TLPPSREEMT	KNQVSLTCLV	KGFYPSDIAV	EWESNGQPEN	NYKTPPMLD	400
SDGSFFLYSK	LTVDKSRWQQ	GNVFSCSVMH	EALHNHYTQK	SLSLSPGK	448

Light chain

EIVLTQSPAT	LSSLSPGERAT	LSCKASKRVT	TYVSWYQQKP	GQAPRLLIYG	50'
ASNRYLGIIPA	RFSGSGSGTD	FLLTISSLEP	EDFAVYYCSQ	SYNYPYTFGQ	100'
GTKLEIKRTV	AAPSVFIFPP	SDEQLKSGTA	SVVCLLNNFY	PREAKVQWKV	150'
DNALQSGNSQ	ESVTEQDSKD	STYLSSTLT	LSKADYEKHK	VYACEVTHQG	200'
LSSPVTKSFN	RGEC				214'

Disulfide bridges

22-98	22"-98"	23'-88'	23'''-88'''	134'-194'	134'''-194'''
136-214'	136"-214'''	149-205	149"-205"	224-224"	225-225"
228-228"	231-231"	262-322	262"-322"	368-426	368"-426"

Glycosylation sites (N)

Asn-298 Asn-298"

MOLECULAR FORMULA C₆₄₇₀H₉₉₅₂N₁₇₁₆O₂₀₁₆S₄₆

MOLECULAR WEIGHT 148.1 kDa

TRADEMARK	Ajovy
SPONSOR	Teva Branded Pharmaceutical Products R&D, Inc.
CODE DESIGNATIONS	TEV-48125, LBR-101, RN307, PF-04472429
<u>CAS</u> REGISTRY NUMBER	1655501-53-3
UNII	PF8K38CG54
WHO NUMBER	10299

gbk