

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (EF-51) EPTINEZUMAB

PRONUNCIATION ep" ti nez' ue mab

THERAPEUTIC CLAIM Prevention of migraine

CHEMICAL NAMES

1. Immunoglobulin G1, anti-(calcitonin gene-related peptide) (human-Oryctolagus cuniculus monoclonal ALD403 heavy chain), disulfide with human-Oryctolagus cuniculus monoclonal ALD403 κ -chain, dimer
2. Immunoglobulin G1-kappa, anti-[Homo sapiens CALCA (calcitonin related polypeptide alpha) calcitonin gene-related peptide 1, CGRP1, 83-119 and Homo sapiens CALCB (calcitonin related polypeptide beta) calcitonin gene-related peptide 2, CGRP2, 82-118], humanized monoclonal antibody; gamma1 heavy chain (1-441) [humanized VH (Homo sapiens IGHV3-66*01 (81.40%) - (IGHD)-IGHJ3*02) [8.7.5] (1-111) - Homo sapiens IGHG1*03 (CH1 K119>A (207) (112-209), hinge (210-224), CH2 N84.4>A (291) (225-334), CH3 (335-439), CHS (440-441)) (112-441)], (214-219')-disulfide with kappa light chain (1'-219') [humanized V-KAPPA (Homo sapiens IGKV1-27*01 (86.20%) - IGKJ4*01) [8.3.13] (1'-112') - Homo sapiens IGKC*01, Km3 (113'-219')]; dimer (220- 220":223-223")-bisdisulfide

STRUCTURAL FORMULA

Heavy chain

EVQLVESGGG	LVQPGGSLRL	SCAVSGIDLS	GYMNVWRQA	PGKGLEWVGV	50
IGINGATYYA	SWAKGRFTIS	RDNSKTTVYL	QMNSLRAEDT	AVYFCARGDI	100
WGQGTLLVTVS	SASTKGPSVF	PLAPSSKSTS	GGTAALGCLV	KDYFPEPVTV	150
SWNSGALTS	VHTFPAVLQS	SGLYSLSSV	TVPSSSLGTQ	TYICNVNHKP	200
SNFKVDARVE	PKSCDKTHTC	PCCPAPPELLG	GPSVFLFPPK	PKDTLMISRT	250
PEVTCVVVDV	SHEDPEVKFN	WYVDGVEVHN	AKTKPREEQY	ASTYRVVSVL	300
TVLHQDWLNG	KEYKCKVSNK	ALPAPIEKTI	SKAKGQPREP	QVYTLPPSRE	350
EMTKNQVSLT	CLVKGFYPSD	IAVEWESNGQ	PENNYKTTTP	VLDSGGSFFL	400
YSKLTVDKSR	WQQGNVFCSS	VMHEALHNHY	TQKSLSLSPG	K	441

Light chain

QVLTQSPSSL	SASVGDRTVI	NCQASQSVYH	NTYLAWYQQK	PGKVPKQLIY	50'
DASTLASGVP	SRFSGSGSGT	DFTLTISLQ	PEDVATYYCL	GSYDCTNGDC	100'
FVFGGGTKVE	IKRTVAAPSV	FIFPPSDEQL	KSGTASVVCL	LNNFYPREAK	150'
VQWKVDNALQ	SGNSQESVTE	QDSKDYSTYSL	SSTLTLSKAD	YEKHKVYACE	200'
VTHQGLSSPV	TKSFNRGEC				219'

Disulfide bridges

22'-89'	22'''-89'''	22-95	22''-95''	95'-100'	138-194	138''-194''	139'-199'	139'''-199'''
214-219'	214'''-219'''	220-220''	223-223''	95'''-100'''	255-315	255''-315''	361-419	361'''-419'''

Glycosylation sites (N)

none

MOLECULAR FORMULA	$C_{6352}H_{9838}N_{1694}O_{1992}S_{46}$
MOLECULAR WEIGHT	143.2 kDa
TRADEMARK	None as yet
SPONSOR	Alder BioPharmaceuticals, Inc.
CODE DESIGNATIONS	ALD403
<u>CAS</u> REGISTRY NUMBER	1644539-04-7
UNII	8202AY8I7H
WHO NUMBER	10308

gbk