

May 27, 2015

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (CD-64)

DOMAGROZUMAB

PRONUNCIATION

doe" ma groz' ue mab

THERAPEUTIC CLAIM

Treatment of Duchenne muscular dystrophy

CHEMICAL NAMES

1. Immunoglobulin G1, anti-(human-*Mus musculus* growth differentiation factor 8) (human-*Mus musculus* monoclonal PF-06252616 heavy chain), disulfide with human-*Mus musculus* monoclonal PF-06252616 light chain, dimer
2. Immunoglobulin G1-kappa, anti-(human Growth/differentiation factor 8 (GDF-8, myostatin)), humanized mouse monoclonal antibody: γ 1 heavy chain (1-445) [humanized VH (humanIGHV3-23*03 (95%) –(IGHD)-IGHJ5*01 [8.8.9] (1-116) –humanIGHG1*03 [CH1 R⁹⁷>K (213); CH2 L⁴>A (233), L⁵>A (234), G⁷>A (236); CH3 K¹⁰⁷del (446)] (117-445)] (219-214')-disulfide with kappa light chain (1'-214') [humanized V-KAPPA (humanIGKV1-39*01 (86%) –IGKJ4*01 [6.3.9] (1'-107') –humanIGKC*01 (108'-214') dimer (225-225":228-228")-bisdisulfide

STRUCTURAL FORMULA

Heavy chain

EVQLLESGGG	LVQPGGSLRL	SCAASGFTFS	SYAMSWVRQA	PGKGLEWVST	50
ISSGGSYTSY	PDSVKGRFTI	SRDNSKNTLY	LQMNSLRAED	TAVYYCAKQD	100
YAMNYWGQGT	LVTVSSASTK	GPSVFPLAPS	SKSTSGGTAA	LGCLVKDYFP	150
EPVTVSWNSG	ALTSGVHTFP	AVLQSSGLYS	LSSVVTVPSS	SLGTQTYICN	200
VNHKPSNTKV	DKKVEPKSCD	KTHTCPPCPA	PEAAGAPSVF	LFPKPKDITL	250
MISRTPEVTC	VVDVSHEDP	EVKFNWYVDG	VEVHNAKTKP	REEQYNSTYR	300
VVSVLTIVLHQ	DWLNGKEYKC	KVSNKALPAP	IEKTIKAKG	QPREPQVYTL	350
PPSREEMTKN	QVSLTCLVKG	FYPSDIAVEW	ESNGQPENNY	KITPPVLDSD	400
GSFFLYSKLT	VDKSRWQQGN	VFSCSVMHEA	LHNHYTQKSL	SLSPG	445

Light chain

DIQMTQSPSS	LSASVGDRVT	ITCKASQDVS	TAVAWYQQKP	GKAPKLLIYS	50'
ASYRYTGVPS	RFSGSGSGTD	FRTLTISLQP	EDFATYYCQQ	HYSTPWFTEG	100'
GTKVEIKRTV	AAPSDFIFPP	SDEQLKSGTA	SVVCLLNNFY	PREAKVQWKV	150'
DNALQSGNSQ	ESVTEQDSKD	STYSLSTLT	LSKADYEKHK	VYACEVTHQG	200'
LSSPVTKSFN	RGEC				214'

Disulfide bridges

22-96	22"-96"	23'-88'	23'''-88'''	134'-194'	134'''-194'''	143-199	143"-199"
214'-219	214'''-219'''	225-225"	228-228"	260-320	260"-320"	366-424	366"-424"

Glycosylation sites (N)

Asn-296 Asn-296'

MOLECULAR FORMULA

C₆₃₆₆H₉₈₂₆N₁₆₉₀O₂₀₀₈S₄₆

MOLECULAR WEIGHT

143.6 kDa

TRADEMARK	None as yet
SPONSOR	Pfizer
CODE DESIGNATIONS	PF-06252616
<u>CAS</u> REGISTRY NUMBER	1629605-31-7
UNII	516MD5WQ24
WHO NUMBER	10286

gbk