

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (FG-04) GARETOSMAB

PRONUNCIATION gar" et os' mab

THERAPEUTIC CLAIM Prevention and treatment of heterotopic ossification in patients with fibrodysplasia ossificans progressive (FOP)

CHEMICAL NAMES

1. Immunoglobulin G4 [234-proline], anti-(human activin A) (human monoclonal REGN2477 γ 4-chain), disulfide with human monoclonal REGN2477 κ -chain, dimer
2. Immunoglobulin G4-kappa, anti-(*Homo sapiens* activin A); human monoclonal antibody; γ 4 heavy chain (1-453) [*Homo sapiens* VH (IGHV4-59*01 (89%) – (IGHD)-IGHJ3*02 (93%)) [8.7.20] (1-126) -*Homo sapiens* IGHG4*01 {hinge[S¹⁰>P(234)]} (127-453)] (140-215')-disulfide with κ light chain (1'-215') [*Homo sapiens* V-KAPPA (IGKV3-20*01 -IGKJ*01)[7.3.9] (1'-108') -*Homo sapiens* IGKC*01 (109'-215')], dimer (232-232":235-235")-bisdisulfide

STRUCTURAL FORMULA

Heavy chain

QVQLQESGPG	LVKPSETLSL	TCTVSGGSFS	SHFWSWIRQP	PGKGLEWIGY	50
IlytGGTSFN	PSLksrvsMS	VGTSKNQFSL	KLSSVTAADT	AVYYCARARS	100
GITFTGIIVP	GSFDIWQGT	MVTVSSASTK	GPSVFPLAPC	SRSTSESTAA	150
LGCLVKDYFP	EPVTVSWNSG	ALTSGVHTFP	AVLQSSGLYS	LSSVVTVPSS	200
SLGTKTYTCN	VDHKPSNTKV	DKRVEskYGP	PCPPCPAPEF	LGGPSVFLFP	250
PKPKDTLMIS	RTPEVTCVVV	DVSQEDPEVQ	FNWYVDGVEV	HNAKTKPREE	300
QFNSTYRVVS	VLTVLHQDWL	NGKEYKCKVS	NKGLPSSIEK	TISKAKGQPR	350
EPQVYTLPPS	QEEMTKNQVS	LTCLVKGFYP	SDIAVEWESN	GQPENNYKTT	400
PPVLDSDGSF	FLYSRLTVDK	SRWQEGNVFS	CSVMHEALHN	HYTQKSLSLs	450
LGK					453

Light chain

EIVLTQSPGT	LSLSPGERAT	LSCRASQSVS	SSYLAWYQQK	PGQAPRLLIY	50
GASSRATGIP	DRFSGSGSGT	DFTLTISRLE	PEDFAVYQCQ	QYGSSPWFPG	100
QGTKVEIKRT	VAAPSVFIFP	PSDEQLKSGT	ASVVCLLNMF	YPREAKVQWK	150
VDNALQSGNS	QESVTEQDSK	DSTYSLSTL	TLSKADYEKH	KVYACEVTHQ	200
GLSSPVTKSF	NRGEC				215

Disulfide bridges

22-95	22"-95"	23'-89'	23"-89"	135'-195'	135"-195"	140-215'-	140"-215"
153-209	153"-209"	232-232"	235-235"	267-327	267"-327"	373-431	373"-431"

Glycosylation sites (N)

Asn-303 Asn-303"

MOLECULAR FORMULA $C_{6472}H_{10004}N_{1712}O_{2024}S_{42}$

MOLECULAR WEIGHT 145.5 kDa

TRADEMARK None as yet

SPONSOR	Regeneron Pharmaceuticals, Inc.
CODE DESIGNATIONS	REGN2477
<u>CAS</u> REGISTRY NUMBER	2097125-54-5
UNII	KR9ZSKO5QE
WHO NUMBER	11041

gbk