

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (HI-123) VILOBELIMAB

PRONUNCIATION vil' oh bel' i mab

THERAPEUTIC CLAIM Treatment of hidradenitis suppurativa, ANCA-associated vasculitis, pyoderma gangrenosum and chronic inflammatory conditions

CHEMICAL NAMES

1. Immunoglobulin G4, anti-(human complement C5a) (human-*Mus musculus* monoclonal IFX-1 γ 4-chain), disulfide with human-*Mus musculus* monoclonal IFX-1 κ -chain, dimer
2. Immunoglobulin G4-kappa, anti-[*Homo sapiens* C5 (complement 5) anaphylatoxin (C5a, C5 Pr678-751)], chimeric monoclonal antibody; gamma4 heavy chain chimeric (1-446) [VH (*Mus musculus* IGHV1-61*01 (81.6%) - (IGHD) -IGHJ3*01 (92.9%)/*Homo sapiens* IGHV1-46*01 (62.2%) - (IGHD) -IGHJ4*01 (92.9%)) [8.8.13] (1-119) -*Homo sapiens* IGHG4*01 (CH1 (120-217), hinge 1-12 (218-229), CH2 (230-339), CH3 (340-444), CHS (445-446)) (120-446)], (133-218')-disulfide with kappa light chain chimeric (1'-218') [V-KAPPA (*Mus musculus* IGKV3-4*01 (98.0%) -IGKJ2*01 (100%)/*Homo sapiens* IGKV3D-11*02 (69.1%) -IGKJ2*01 (91.7%)) [10.3.9] (1'-111') -*Homo sapiens* IGKC*01 (100%), Km3 A45.1 (157), V101 (195) (112'-218')]; dimer (225-225":228-228")-bisdisulfide, produced in Chinese hamster ovary (CHO) cells, glycoform alfa

STRUCTURAL FORMULA

Heavy chain

QVQLQQSGPQ	LVRPGTSVKI	SCKASGYSFT	TFWMDWVKQR	PGQGLEWIGR	50
IDPSDSESR	DQRFKDRATL	TVDKSSSTVY	MQLSSPTSED	SAVYYCARGN	100
DGYYGFAIYWG	QGTLVTVSSA	STKGPSVFPPL	APCSRSTSES	TAALGCLVKD	150
YFPEPVTVSW	NSGALTSGVH	TFPAVLQSSG	LYSLSSVTV	PSSSLGTTY	200
TCNVDHKPSN	TKVDKRVESK	YGPPCPSCPA	PEFLGGPSVF	LFPPKPKDTL	250
MISRTPEVTC	VVVDVSQEDP	EVQFNWYVDG	VEVHNAKTKP	REEQFNSTYR	300
VVSVLTVLHQ	DWLNGKEYKC	KVSNKGLPSS	IEKTISKAKG	QPREPQVYTL	350
PPSQEEMTKN	QVSLTCLVKG	FYPSDIAVEW	ESNGQPENNY	KTTTPVLDS	400
GSFFLYSRLT	VDKSRWQEGN	VFSCSVMHEA	LHNHYTQKSL	SLSLGK	446

Light chain

DIVLTQSPAS	LAVSLGQRAT	ISCKASQSVD	YDGDSYMKWY	QQKPGQPPKL	50'
LIYAASNLQS	GIPARFSGSG	SGTDFTLNIIH	PVEEEDAATY	YCQQSNEDPY	100'
TFGGGTKLEI	KRTVAAPSVF	IFPPSDEQLK	SGTASVVCLL	NNFYPREAKV	150'
QWKVDNALQS	GNSQESVTEQ	DSKDSYSTLS	STLTLSKADY	EKHKVVACEV	200'
THQGLSSPVT	KSFNRGEC				218'

Disulfide bridges

22-96	22"-96"	23'-92'	23'''-92'''	133-218'	133'''-218'''	138'-198'	138'''-198'''
146-202	146"-202"	225-225"	228-228"	260-320	260'''-320'''	366-424	366'''-424'''

Glycosylation sites (N)

Asn-296 Asn-296'

MOLECULAR FORMULA	C ₆₄₅₆ H ₉₉₇₆ N ₁₇₁₆ O ₂₀₅₄ S ₄₄ (non-glycosylated)
MOLECULAR WEIGHT	145.91 kDa (non-glycosylated)
TRADEMARK	None as yet
SPONSOR	InflaRx GmbH
CODE DESIGNATIONS	IFX-1
<u>CAS</u> REGISTRY NUMBER	2250440-41-4
UNII	F5T0RF9ZJA
WHO NUMBER	11304

gbk