

# STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (EF-33) BERMEKIMAB  
PRONUNCIATION ber mek' i mab  
THERAPEUTIC CLAIM Treatment of inflammatory diseases

## CHEMICAL NAMES

1. Immunoglobulin G1, anti-(human interleukin 1 $\alpha$ ) (human monoclonal MABp1 heavy chain), disulfide with human monoclonal MABp1  $\kappa$ -chain, dimer
2. Immunoglobulin G1-kappa, anti-(human interleukin-1 alpha (hematopoietin-1, IL-1 alpha)); human monoclonal antibody;  $\gamma$ 1 heavy chain (1-452) [human VH (*Homo sapiens* IGHV3-30\*03 (89%) –(IGHD)-IGHJ1\*01 (92%)) [8.8.15] (1-122) -*Homo sapiens* IGHG1\*03 (123-452)] (225-214')-disulfide with kappa light chain (1'-214') [human V-KAPPA (*Homo sapiens* IGKV1-12\*01 (93%) – IGKJ4\*01) [6.3.9] (1'-107') -*Homo sapiens* IGKC\*01 (108'-214')], dimer (231-231":234-234")-bisdisulfide

## STRUCTURAL FORMULA

### Heavy chain

QVQLVESGGG	VVQPGRSLRL	SCTASGFTFS	MFGVHWVQA	PGKGLEWVAA	50
VSVDGSKYY	AESVKGRTI	SRDNSKNILF	LQMDSLRLED	TAVYYCARGR	100
PKVVIPAPLA	HWGQGTLVTF	SSASTKGPSV	FPLAPSSKST	SGGTAALGCL	150
VKDYFPEPVT	VSWNSGALTS	GVHTFPAVLQ	SSGLYSLSSV	VTVPSSSLGT	200
QTYICNVNHNK	PSNTKVDKRV	EPKSCDKTHT	CPPCPAPELL	GGPSVFLFPP	250
KPKDTLMISR	TPEVTCVVVD	VSHEDPEVKF	NWYVDGVEVH	NAKTKPREEQ	300
YNSTYRVVSV	LTVLHQDWLN	GKEYKCKVSN	KALPAIEKT	ISKAKGQPRE	350
PQVYTLPPSR	EEMTKNQVSL	TCLVKGFPYPS	DIAVEWESNG	QPENNYKTP	400
PVLDSDSGSFF	LYSKLTVDKS	RWQQGNVFSC	SVMHEALHNS	YTQKSLSLSP	450
GK					452

### Light chain

DIQMTQSPSS	VSASVGDRVT	ITCRASQGIS	SWLAWYQQKP	GKAPKLLIYE	50'
ASNLETGVPS	RFSGSGSGSD	FSLTISLQP	EDFATYYCQQ	TSSFLSFSGG	100'
GTKVEHKRTV	AAPSVFIFPP	SDEQLKSGTA	SVVCLLNNFY	PREAKVQWKV	150'
DNALQSGNSQ	ESVTEQDSKD	STYLSLSTLT	LSKADYEKHK	VYACEVTHQG	200'
LSSPVTKSFN	RGEC				214'

### Disulfide bridges

22-96	22"-96"	23-88'	23"-88"	134'-194'	134"-194"	149-205	149"-205"
214'-225	214"-225"	231-231"	234-234"	266-326	266"-326"	372-430	372"-430"

### Glycosylation sites (N)

Asn-302 Asn-302"

MOLECULAR FORMULA  $C_{6464}H_{10024}N_{1736}O_{2000}S_{44}$  (protein)

MOLECULAR WEIGHT 145.5 kDa (unglycosylated)

TRADEMARK Xilonix

SPONSOR XBiotech

CODE DESIGNATIONS	MaBp1
<u>CAS</u> REGISTRY NUMBER	1401965-15-8
UNII	N6SVN735GY
WHO NUMBER	10806

gbk