

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (HI-208) MEZAGITAMAB
 PRONUNCIATION mez" a jit' a mab
 THERAPEUTIC CLAIM Immunomodulator, antineoplastic

CHEMICAL NAMES

1. Immunoglobulin G1, anti-(human CD38 antigen) (human monoclonal AB79 γ 1-chain), disulfide with human monoclonal AB79 λ -chain, dimer (Source: CAS)
2. Immunoglobulin G1-lambda, anti-(*Homo sapiens* ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1 (2'-phospho-ADP-ribosyl cyclase, antigene CD38)); humanized monoclonal antibody; γ 1 heavy chain humanized(1-453) [*Homo sapiens* VH (IGHV3-23*01 (89%) –(IGHD)-IGHJ1*01 (93%)) [8.8.16] (1-123) -*Homo sapiens* IGHG1*03 (124-453)] (226-215')-disulfide with λ light chain humanized (1'-216') [V-LAMBDA (*Homo sapiens* IGLV1-47*01 (92%) – IGLJ2*01)[8.3.11] (1'-110') -*Homo sapiens* IGLC1*02 (111'-216')], dimer (232-232":235-235")-bisdisulfide (Source: IUPAC)

STRUCTURAL FORMULA

Heavy chain X & X''

EVQLLESGGG	LVQPGGSLRL	SCAASGFTFD	DYGMWVRQA	PGKLEWVSD	50
ISWNGGKTHY	VDSVKQFTTI	SRDNSKNTLY	LQMNSLRAED	TAVYYCARGS	100
LFHDSSGFYF	GHWQGTLVT	VSSASTKGPS	VFPLAPSSKS	TSGGTAALGC	150
LVKDYFPEPV	TVSWNSGALT	SGVHTFPAVL	QSSGLYSLSS	VVTVPSSSLG	200
TQTYICNVNH	KPSNTKVDKR	VEPKSCDKTH	TCPPCPAPEL	LGGPSVFLFP	250
PKPKDTLMIS	RTPEVTCVVV	DVSHEDPEVK	FNWYVDGVEV	HNAKTKPREE	300
QYNSTYRVVS	VLTVLHQDWL	NGKEYKCKVS	NKALPAPIEK	TISKAKGQPR	350
EPQVYTLPPS	REEMTKNQVS	LTCLVKGFYP	SDIAVEWESN	GQPENNYKTT	400
PPVLDSDGSF	FLYSKLTVDK	SRWQQGNVFS	CSVMHEALHN	HYTQKLSLSL	450
PGK					503

Heavy chain X' & X'''

QSVLTQPPSA	SGTPGQRVTI	SCSGSSSNIG	DNYVSWYQQL	PGTAPKLLIY	50'
RDSQRPSGVP	DRFSGSKSGT	SASLAISGLR	SEDEADYYCQ	SYDSSLGSGSV	100'
FGGGTKLTVL	GQPKANPTVT	LFPPSSSEELQ	ANKATLVCLI	SDFYPGAVTV	150'
AWKADGSPVK	AGVETTKPSK	QSNNKYAASS	YLSLTPEQWK	SHRSYSCQVT	200'
HEGSTVEKTV	APTECS				216'

Disulfide bridges location

22-96	22'-89'	22"-96"	22'''-89'''	138'-197'	138'''-197'''	150-206	150"-206"
215'-226	215'''-226'''	232-232"	235-235"	267-327	267'''-327'''	373-431	373"-431"

Glycosylation sites (N)

Asn-303 Asn-303'

MOLECULAR FORMULA $C_{6402}H_{9884}N_{1720}O_{2024}S_{42}$

MOLECULAR WEIGHT 144.68 kDa

TRADEMARK None as yet

SPONSOR Takeda Pharmaceutical Co. Ltd.

CODE DESIGNATIONS	TAK-079
<u>CAS</u> REGISTRY NUMBER	2227490-52-8
UNII	0XMR8L9LOL
WHO NUMBER	11159

gbk