

# STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (EF-148) NAXITAMAB

PRONUNCIATION nax it' a mab

THERAPEUTIC CLAIM Pediatric oncology

## CHEMICAL NAME

1. Immunoglobulin G1, anti-(ganglioside GD2) (humanized *Mus musculus* clone hu3F8  $\gamma$ 1-chain), disulfide with humanized *Mus musculus* clone hu3F8 light-chain, dimer
2. Immunoglobulin G1-kappa, anti-(*Homo sapiens* Beta-1,4 *N*-acetylgalactosaminyltransferase 1 ((*N*-acetylneuraminy)-galactosylglucosylceramide, GM2/GD2 synthase)); humanized mouse monoclonal antibody;  $\gamma$ 1 heavy chain (1-449) [*Mus musculus* VH (IGHV2-9\*02 (79%) –(IGHD)-IGHJ3\*01 (92%)) [8.6.13] (1-119) -*Homo sapiens* IGHG1\*01 {CH1[K<sup>97</sup>>R(216)} (120-449)] (222-211')-disulfide with  $\kappa$  light chain (1'-211') [*Mus musculus* V-KAPPA (IGKV6-32\*02 (85%) –IGKJ2\*03 (90%))[6.3.6]] (1'-104') -*Homo sapiens* IGKC\*01 (105'-211')], dimer (228-228':231-231')-bisdisulfide

## STRUCTURAL FORMULA

### Heavy chain

QQLVESGPG	VVQPGRSLRI	SCAVSGFSVT	NYGVHWVRQP	PGKLEWLGV	50
IWAGGITNYN	SAFMSRLTIS	KDNSKNTVYL	QMNSLRAEDT	AMYYCASRGG	100
HGYALDYWG	QGTLVTVSSA	STKGPSVFPL	APSSKSTSGG	TAALGCLVKD	150
YFPEPVTVSW	NSGALTSGVH	TFFPAVLQSSG	LYSLSSVTV	PSSSLGTQTY	200
ICNVNHKPSN	TKVDKRVEPK	SCDKTHTCPP	CPAPELLGGP	SVFLFPPKPK	250
DTLMISRTP	VTCVVVDVSH	EDPEVKFNWY	VDGVEVHNAK	TKPREEQYNS	300
TYRVVSVLTV	LHQDWLNGKE	YKCKVSNKAL	PAPIEKTISK	AKGQPREPQV	350
YTLPPSRDEL	TKNQVSLTCL	VKGFYPSDIA	VEWESNGQPE	NNYKTTTPVL	400
DSDGSFFLYS	KLTVDKSRWQ	QGNVFSCSVM	HEALHNHYTQ	KSLSLSPGK	449

### Light chain

EIVMTQTPAT	LSVSAGERVT	ITCKASQSVS	NDVTWYQQKP	GQAPRLLIYS	50'
ASNRYSGVPA	RFSGSGYGTE	FTFTLSSVQS	EDFAVYFCQQ	DYSSFGQGTK	100'
LEIKRTVAAP	SVFIFPPSDE	QLKSGTASVV	CLLNNFYPRE	AKVQWKVDNA	150'
LQSGNSQESV	TEQDSKDSTY	SLSSTLTLSK	ADYEKHKVYA	CEVTHQGLSS	200'
PVTKSFNRGE	C				211'

### Disulfide bridges

22-95	22"-95"	23'-88'	23'''-88'''	131'-191'	131'''-191'''	146-202	146"-202"
211'-222	211'''-222'''	228-228"	231-231"	263-323	263'''-323'''	369-427	369"-427"

### Glycosylation sites (N)

Asn-299 Asn-299"

MOLECULAR FORMULA  $C_{6414}H_{9910}N_{1718}O_{1996}S_{44}$  (non-glycosylated)

MOLECULAR WEIGHT 144.4 kDa (non-glycosylated)

TRADEMARK None as yet

SPONSOR	Memorial Sloan Kettering
CODE DESIGNATIONS	Hu3F8
<u>CAS</u> REGISTRY NUMBER	1879925-92-4
UNII	9K8GNJ2874
WHO NUMBER	10918

gbk