

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (KL-232) PATRITUMAB

PRONUNCIATION pat rit' ue mab

THERAPEUTIC CLAIM Antineoplastic

CHEMICAL NAMES

Immunoglobulin G1, anti-(human neuregulin receptor HER3) (human monoclonal U3-1287 heavy chain), disulfide with human monoclonal U3-1287 κ -chain, dimer (SciFinder)

Immunoglobulin G1-kappa, anti-[*Homo sapiens* ERBB3 (receptor tyrosine-protein kinase erbB-3, HER3)], *Homo sapiens* monoclonal antibody; gamma1 heavy chain (1-447) [*Homo sapiens* VH (IGHV4-34*01 (99.00%) -(IGHD)-IGHJ2*01) [8.7.11] (1-117) -IGHG1*03 (118-447)], (220-220')-disulfide with kappa light chain (1'-220') [*Homo sapiens* V-KAPPA (IGKV4-1*01 (95.00%) -IGKJ1*01) [12.3.9] (1'-113') -IGKC*01 (114'-220')]; (226-226":229-229")-bisdisulfide dimer (INN)

STRUCTURAL FORMULA

Heavy chain X, X''

QVQLQQWGAG	LLKPSETLSL	TCAVYGGSF	GYYSWIRQP	PGKLEWIGE	50
INHSGSTNYN	PSLKSRVTIS	VETSKNQFSL	KLSSVTAADT	AVYYCARDKW	100
TWYFDLWGRG	TLVTVSSAST	KGPSVFPLAP	SSKSTSGGTA	ALGCLVKDYF	150
PEPVTVSWNS	GALTSGVHTF	PAVLQSSGLY	SLSSVTVVPS	SSLGTQTYIC	200
NVNHKPSNTK	VDKRVEPKSC	DKTHTCPPCP	APELLGGPSV	FLFPPKPKDT	250
LMISRTPEVT	CVVVDVSHED	PEVKFNWYVD	GVEVHNAKTK	PREEQYNSTY	300
RVVSVLTVLH	QDNLNGKEYK	CKVSNKALPA	PIEKTISKAK	GQPREPQVYT	350
LPPSREEMTK	NQVSLTCLVK	GFYPSDIAVE	WESNGQPENN	YKTTTPPVLD	400
DGSFFLYSKL	TVDKSRWQQG	NVFSCSVMHE	ALHNHYTQKS	LSLSPPGK	450

Light chain X', X'''

DIEMTQSPDS	LAVSLGERAT	INCRSSQSVL	YSSSNRNYLA	WYQQNPGQPP	50
KLLIYWASTR	ESGVPDRFSG	SGSGTDFTLT	ISSLQAEDVA	VYYCQQYYST	100
PRTFGQGTKV	EIKRTVAAPS	VFIFPPSDEQ	LKSGTASVVC	LLNNFYPREA	150
KVQWKVDNAL	QSGNSQESVT	EQDSKSTYS	LSSTLTLSKA	DYEKHKVYAC	200
EVTHQGLSSP	VTKSFNRGEC				250

Disulfide bridges location

Intra-H 22-95 144-200 261-321 367-425

22"-95" 144"-200" 261"-321" 367"-425"

Intra-L 23'-94' 140'-200'

23'''-94''' 140'''-200'''

Inter-H-L 220-220' 220"-220''

Inter-H-H 226-226" 229-229"

N-glycosylation sites

297, 297"

MOLECULAR FORMULA	C ₆₅₄₂ H ₁₀₀₇₂ N ₁₇₄₀ O ₂₀₃₈ S ₄₀
MOLECULAR WEIGHT	147 kDa
TRADEMARK	None as yet
SPONSOR	Daiichi Sankyo, Inc
CODE DESIGNATIONS	U3-1287; AMG 888
<u>CAS</u> REGISTRY NUMBER	1262787-83-6
UNII	86780VJI1Q
WHO NUMBER	9549

gbk