

## STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (JK-159)	CADONILIMAB
PRONUNCIATION	ka" doe ni' li mab
THERAPEUTIC CLAIM	Antineoplastic

### CHEMICAL NAMES

1. Immunoglobulin G1 [235-alanine,236-alanine,238-alanine], anti-(human programmed cell death protein 1) (human-Mus musculus  $\gamma$ 1-chain) fusion protein with peptide linker (GGGS)<sub>4</sub> fusion protein with immunoglobulin anti-(human cytotoxic T-lymphocyte-associated protein 4) (human-Mus musculus heavy chain V-D-J region) fusion protein with peptide linker (GGGS)<sub>4</sub> fusion protein with immunoglobulin anti-(human cytotoxic T-lymphocyte-associated protein 4) (human-Mus musculus  $\kappa$ -chain V-J region), disulfide with human-Mus musculus  $\kappa$ -chain, dimer (Source: CAS)
2. immunoglobulin G1-kappa anti-[Homo sapiens PDCD1 (programmed cell death 1, PD-1, PD1, CD279)], each heavy chain being fused to a scFv anti-[Homo sapiens CTLA4 (cytotoxic T-lymphocyte-associated protein 4, CD152)], monoclonal antibody, bispecific, tetravalent; gamma1 heavy chain anti-PDCD1 fused to scFv anti-CTLA4 (1-713) [gamma-1 heavy chain(1-448) [VH anti-PDCD1 (Homo sapiens IGHV3- 23\*04 (88.7%) -(IGHD) -IGHJ6\*01 (90.9%) T123>L (113)) CDR IMGT [8.8.11] (26-33.51-58.97-107) (1-118) -Homo sapiens IGHG1\*01, G1m17,1, G1v14 CH2 A1.3, A1.2 (CH1 K120 (215) (119-216), hinge 1- 15 (217-231), CH2 L1.3>A (235), L1.2>A (236), G1>A (238) (232-341), CH3 D12 (357), L14 (359) (342-446), CHS (447-448)) (119-448)] - 20- mer tetrakis(tetraglycyl-seryl) linker (449-468) -scFv heavy-lambda antiCTLA4 (469-713) [VH anti-CTLA4 G49>C (512) (Homo sapiens IGHV1-2\*02 (84.7%) -(IGHD) -IGHJ5\*01 (90.9%) S128>A (583)) CDR-IMGT [8.8.8] (494-501.519-526.565-572) (469-583) -20-mer tetrakis(tetraglycyl-seryl) linker (584-603) -V-LAMBDA anti-CTLA4 (Homo sapiens IGLV7-46\*01 (85.3%) - IGLJ3\*02 (91.7%) G120>C (705)) CDR-IMGT [9.3.9] (629-637.655-657.694-702) (604-713)]; (221-214')-disulfide with kappa light chain anti-PDCD1 (1'-214') [VKAPPA (Mus musculus IGKV14-111\*01 (86.3%) -IGKJ5\*01 (100%)/Homo sapiens IGKV1-16\*01 (80.0%) -IGKJ2\*01 (81.8%) Q120>A (100), I126>L (106)) CDR-IMGT [6.3.9] (27-32.50-52.89- 97) (1'-107') -Homo sapiens IGKC\*01 (100%), Km3 A45.1 (153), V101 (191) (108'-214')]; dimer (227-227":230-230")-bisdisulfide, produced in Chinese hamster ovary (CHO) cells, glycoform alfa (Source: WHO pINN list 124)

# STRUCTURAL FORMULA

## Heavy chain

EVQLVESGGG	LVQPGGSLRL	SCAASGFAPF	SYDMSWVRQA	PGKGLDWVAT	50
ISGGGRYTTY	PDSVKGRFTI	SRDNSKNNLY	LQMNSLRAED	TALYYCANRY	100
GEAWFAYWQ	GTLVTVSSAS	TKGPSVFPLA	PSSKSTSGGT	AALGCLVKDY	150
FPEPVTVSWN	SGALTSGVHT	FPAVLQSSGL	YSLSSVVTVP	SSSLGTQTYI	200
CNVNHKPSNT	KVDKVEPKS	CDKTHTCPPC	PAPEAAGAPS	VFLFPPKPKD	250
TLMISRTPEV	TCVVVDVSHE	DPEVKFNWYV	DGVEVHNAKT	KPREEQYNST	300
YRVVSVLTVL	HQDWLNGKEY	KCKVSNKALP	APIEKTISKA	KGQPREPQVY	350
TLPPSRDEL	KNQVSLTCLV	KGFYPSDIAV	EWESNGQPEN	NYKTTTPVLD	400
SDGSFFLYSK	LTVDKSRWQ	GNVFSCSVHM	EALHNHYTQK	SLSLSPGKGG	450
GGSGGGGGSG	GGSGGGGSQV	QLVESGAEVK	KPGASVKVSC	KASGYSFTGY	500
TMNWVRQAPG	QCLEWIGLIN	PYNNITNYAQ	KFQGRVFTTV	DTSISTAYME	550
LSRLRSDDTG	VYFCARLDYR	SYWGQGTLLV	VSAGGGGSGG	GGSGGGGSGG	600
GGSQAVVTQE	PSLTVSPGGT	VTLTCGSSTG	AVTTSNFPNW	VQKPKGQAPR	650
SLIGGTNKA	SWTPARFSGS	LLGGKAALTI	SGAQPEDEAE	YYCALWYSNH	700
WVFGCGTKLT	VLR				713

## Light chain

DIQMTQSPSS	MSASVGDRVT	FTCRASQDIN	TYLSWFQQKP	GKSPKTLIYR	50
ANRLVSGVPS	RFSGSGSQD	YTLTISSLQP	EDMATYYCLQ	YDEFPLTFGA	100
GTKLELKRTV	AAPSVFIFPP	SDEQLKSGTA	SVVCLLNIFY	PREAKVQWKV	150
DNALQSGNSQ	ESVTEQDSKD	STYLSSTLT	LSKADYEKHK	VYACEVTHQG	200
LSSPVTKSFN	RGEC				214

## Disulfide bridges

22-96	22''-96''	23'-88'	23'''-88'''	134'-194'	134'''-194'''
145-201	145''-201''	221-214'	221'''-214'''	227-227''	230-230''
262-322	262''-322''	368-426	368''-426''	490-564	490''-564''
512-705	512''-705''	625-293	625''-693''		

## Glycosylation sites (N)

298	298''	524	524''
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**MOLECULAR FORMULA** C<sub>8772</sub>H<sub>13504</sub>N<sub>2384</sub>O<sub>2768</sub>S<sub>62</sub> (peptide only)

**MOLECULAR WEIGHT** 198.6 kDa

**TRADEMARK** None as yet

**SPONSOR** Akeso Biopharma, Co., Ltd.

**CODE DESIGNATIONS** AK104

**CAS REGISTRY NUMBER** 2394841-59-7

**UNII** 6FYG1DS4NW

**WHO NUMBER** 11581

gbk