

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (KL-141) GINDAMERAN

PRONUNCIATION gin" da mer' an

THERAPEUTIC CLAIM Antineoplastic

CHEMICAL NAME

RNA (recombinant [1,2-[m7Gm-p-[P(R)]-sp-p-G]]-capped human cancer testis antigen NY-ESO-1-specifying poly(A)-tailed messenger RBL001.3), inner salt - (Source: CAS)

STRUCTURAL FORMULA

Nucleotide sequence 5' → 3':

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GGGCGAACUA  GUAUUCUUCU  GGUCCCCACA  GACUCAGAGA  GAACCCGCCA  50
CCAUGAGAGU  GAUGGCCCCC  AGAACCCUGA  UCCUGCUGCU  GUCUGGCGCC  100
CUGGCCCUGA  CAGAGACAUG  GGCCGGAAGC  GGCGGCUCUG  GAGGAGGCGG  150
CUCGGGAGGC  AUGCAGGCCG  AGGGCAGAGG  AACAGGCGGC  AGCACAGGCG  200
ACGCAGAUGG  ACCAGGCGGC  CCUGGAAUCC  CUGAUGGCC  AGGCGGCAAU  250
GCUGGGGGAC  CAGGAGAAGC  UGGCGCCACA  GGCGGGAGAG  GACCUAGAGG  300
AGCUGGAGCC  GCUAGAGCUU  CUGGACCUGG  GGGAGGCGCC  CCUAGAGGAC  350
CACAUUGGAG  CGCUGCCAGC  GGCCUGAAUG  GCUGCUGCAG  AUGCGGCGCC  400
AGAGGCCUCG  AGAGCCGGCU  GCUGGAAUUC  UACCUGGCCA  UGCCCUCGCG  450
CACCCCAUG  GAAGCCGAGC  UGGCCAGAAG  AUCCUGGCU  CAGGACGCUC  500
CUCCUCUGCC  UGUGCCCGG  GUCUGCUGA  AAGAAUUCAC  CGUGUCCGGC  550
AACAUCCUGA  CCAUCAGACU  GACAGCCGCC  GAUCACAGAC  AGCUCCAGCU  600
GAGCAUCAGC  UCUUGCCUGC  AGCAGCUGAG  CCUGCUGAUG  UGGAUCACCC  650
AGUGCUUUCU  GCCCGUGUUC  CUGGCCCAGC  CACCCAGCGG  ACAGAGAAGG  700
GGAGGAUCCG  GUGGUGGCGG  CAGCGGCGGC  AAGAAGCAGU  ACAUCAAGGC  750
CAACAGCAAG  UUCAUCGGCA  UCACCGAGCU  GAAGAAGCUG  GGAGGGGGCA  800
AACGGGGAGG  CGGCAAAAAG  AUGACCAACA  GCGUGGACGA  CGCCCUGAUC  950
AACAGCACCA  AGAUCUACAG  CUACUCCCC  AGCGUGAUCA  GCAAAGUGAA  900
CCAGGGCGCU  CAGGGCAAGA  AACUGGGCUC  UAGCGGAGGG  GGAGGCUCUC  950
CUGGCGGGGG  AUCUAGCAUC  GUGGGAAUUG  UGGCAGGACU  GGCAGUGCUG  1000
GCCGUGGUGG  UGAUCGGAGC  CGUGGUGGCU  ACCGUGAUGU  GCAGACGGAA  1050
GUCCAGCGGA  GGCAAGGGCG  GCAGCUACAG  CCAGGCCGCC  AGCUCUGAUA  1100
GCGCCCAGG  CAGCGACGUG  UCACUGACAG  CCUAGUAACU  CGAGCUGGUA  1150
CUGCAUGCAC  GCAAUGCUG  CUGCCCCUU  CCCGUCCUGG  GUACCCCGAG  1200
UCUCCCCGA  CCUCGGGUCC  CAGGUAUGCU  CCCACCUCCA  CCUGCCCCAC  1250
UCACCACCUC  UGCUAGUUC  AGACACCUCC  CAAGCACGCA  GCAAUGCAGC  1300
UCAAAACGCU  UAGCCUAGCC  ACACCCCCAC  GGGAAACAGC  AGUGAUU AAC  1350
CUUUAGCAAU  AAACGAAAGU  UUAACUAAGC  UAUACUAACC  CCAGGUUGG  1400
UCAUUUCGU  GCCAGCCACA  CCGAGACCU  GUCCAGAGUC  GCUAGCCGCG  1450
UCGCUAAAA  AAAAAAAAAA  AAAAAAAAAA  AAAAAAGCAU  UGACUAAAA  1500
AAAAAAAAAA  AAAAAAAAAA  AAAAAAAAAA  AAAAAAAAAA  AAAAAAAAAA  1550
AAAAAAAAAA  AAAAA
    
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Feature	Description	Position
Capping Structure	phosphorothioate stabilized cap analogue	1
hAg-Kozak	human ct-globin - Kozak region	1-52
Sec	secretion signal sequence.	53-130
GS-rich linkers	Sequences that code for short linker peptides generally consisting of the amino acids glycine and serine	131-160, 701-730 and 926-967
NY-ESO-1	Codon-optimized sequences encoding the protein NY-ESO-1	161-700

P2P16	Sequence coding for tetanus toxoid-derived helper epitopes	731-925
MITD	transmembrane and cytoplasmic domains of MHC class I molecule	968-1138
FI	sequence element derived of the amino terminal enhancer of splitRNA (F) and from the mitochondrially encoded I2S RNA (I)	1139-1455
Poly(A)	A poly(A)-tail measuring 110 nucleotides in length.	1455-1565

MOLECULAR FORMULA C₁₄₉₇₈H₁₈₅₇₀N₆₂₃₃O₁₀₇₇₁S₁P₁₅₆₇

MOLECULAR WEIGHT 506.8 kDa

TRADEMARKS None yet

SPONSOR BioNTech SE

CODE DESIGNATIONS RBL001.3

CAS REGISTRY NUMBER 2348560-89-2

UNII WGT2OMP6LX

WHO NUMBER 11477

SCS