

August 26, 2015

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (de-23) SACITUZUMAB

PRONUNCIATION sak" i tooz' ue mab

THERAPEUTIC CLAIM Treatment of cancer

CHEMICAL NAMES

1. Immunoglobulin G1, anti-(human tumor-associated calcium signal transducer 2) (human-Mus musculus monoclonal hRS7 heavy chain), disulfide with human-Mus musculus monoclonal hRS7 κ -chain, dimer
2. Immunoglobulin G1-kappa, anti-(human tumor-associated calcium signal transducer 2 (cell surface glycoprotein Trop-2, membrane component chromosome 1 surface marker 1, pancreatic carcinoma marker protein GA733-1)): humanized mouse monoclonal antibody: γ 1 heavy chain (1-451) [human VH (IGHV7-4*02-(IGHD)-IGHJ4*01) (86%) [8.8.14] (1-121) – IGHG1*03 (122-451)] (224-214')-disulfide with kappa light chain (1'-214') [human V-KAPPA (IGKV1-9*01-IGKJ4*01) (82%) [6.3.9] (1'-107') -IGKC*01 (108'-214')] dimer (230-230":233-233")-bisdisulfide

STRUCTURAL FORMULA

Heavy chain

QVQLQQSGSE	LKKPGASVKV	SCKASGYTFT	NYGMNWKQA	PGQGLKWMGW	50
INTYTGEPY	TDDFKGRFAF	SLDTSVSTAY	LQISSLKADD	TAVYFCARGG	100
FGSSYWFYFDV	WGQGS�VTVS	SASTKGPSVF	PLAPSSKSTS	GGTAALGCLV	150
KDYFPEPVTV	SWNSGALTSG	VHTFPAVLQS	SGLYSLSSVV	TVPSSSLGTQ	200
TYIQNVNHKP	SNTKVDKRVE	PKSCDKHTHTC	PPCPAPELLG	GPSVFLFPPK	250
PKDTLMISRT	PEVTCVVVDV	SHEDPEVKFN	WYVDGVEVHN	AKTKPREEQY	300
NSTYRVVSVL	TVLHQDWLNG	KEYKCKVSNK	ALPAPIEKTI	SKAKGQPREP	350
QVYTLPPSRE	EMTKNQVSLT	CLVKGFYPSD	IAVEWESNGQ	PENNYKTTTP	400
VLDSGGSFFL	YSKLTVDKSR	WQQGNVFSCS	VMHEALHNHY	TQKSLSLSPG	450
K					451

Light chain

DIQLTQSPSS	LSASVGDRVS	ITCKASQDVS	IAVAWYQQKP	GKAPKLLIYS	50'
ASYRYTGVPD	RFSGSGSGTD	FLLTISSLQP	EDFAVYYCQQ	HYITPLTPGA	100'
GTKVEIKRTV	AAPSVFIFPP	SDEQLKSGTA	SVVCLLNNFY	PREAKVQWKV	150'
DNALQSGNSQ	ESVTEQDSKD	STYLSSTLT	LSKADYEKHK	VYAQEVTHQG	200'
LSSPVTKSFN	RGEC				214'

Disulfide bridges

22-96	22"-96"	23'-88'	23'''-88'''	134'-194'	134'''-194'''	148-204	148"-204"
214'-224	214'''-224'''	230-230"	233-233"	265-325	265'''-325'''	371-429	371"-429"

Glycosylation sites (N)

Asn-301 Asn-301"

MOLECULAR FORMULA

C₆₄₉₆H₁₀₀₁₂N₁₇₀₂O₂₀₁₃S₄₂

MOLECULAR WEIGHT	145.6 kDa
TRADEMARK	None as yet
SPONSOR	Immunomedics, Inc.
CODE DESIGNATIONS	None
<u>CAS</u> REGISTRY NUMBER	179-6566-95-4
UNII	73H2I6QS54
WHO NUMBER	10418

gbk