

December 30, 2014

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

USAN (CD-38) ISATUXIMAB

PRONUNCIATION eye" sa tux' i mab

THERAPEUTIC CLAIM Treatment of cancer

## CHEMICAL NAMES

1. Immunoglobulin G1, anti-(human CD38 antigen) (human-Mus musculus monoclonal hu38SB19 heavy chain), disulfide with human-Mus musculus monoclonal hu38SB19 light chain, dimer
2. Immunoglobulin G1-kappa, anti-(human ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1 (CD38 antigen)); chimeric human/mouse monoclonal antibody:  $\gamma$ 1 heavy chain (1-450) [*Mus musculus* VH (IGHV1-7\*01 (81%) – (IGHD)-IGHJ4\*01 (87%)) [8.8.13] (1-120) – *Homo sapiens* CH IGHG1\*01 (121-450)] (223-214')-disulfide with kappa light chain (1'-214') [*Mus musculus* V-KAPPA (IGKV6-17\*01 (90%) –IGKJ2\*01) [6.3.9] (1'-107') - *Homo sapiens* C-KAPPA IGKC\*01 (108'-214')] dimer (229-229':232-232')-bisdisulfide

## STRUCTURAL FORMULA

## Heavy chain

QVQLVQSGAE	VAKPGTSVKL	SCKASGYTFT	DYWMQWVKQR	PGQGLEWIGT	50
IYPGDGDTGY	AQKFQ GKATL	TADKSSKTVY	MHLSSLASED	SAVYYCARGD	100
YYGNSNLDYW	GQGTSTVTSS	ASTKGPSVFP	LAPSSKSTSG	GTAALGCLVK	150
DYFPEPVTVS	WNSGALTSKV	HTFP AVLQSS	GLYSLSSVVT	VPSSSLGTQT	200
YICNVNHNKPS	NTKVDKKEVP	KSCDKTHTCP	PCPAPELLGG	PSVFLFPPKP	250
KDTLMISRTP	EVTCVVVDVS	HEDPEVKFNW	YVDGVEVHNA	KTKPREEQYN	300
STYRVVSVLT	VLHQDWLNGK	EYKCKVSNKA	LPAPIEKTIS	KAKGQPREPQ	350
VYTLPPSRDE	LTKNQVSLTC	LVKGFYPSDI	AVEWESNGQP	ENNYKTTTPV	400
LDSDGSFFLY	SKLTVDKSRW	QQGNVFSCSV	MHEALHNHYT	QKSLSLSPGK	450

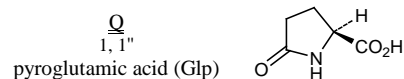
## Light chain

DIVMTQSHLS	MSTSLGDPVS	ITCKASQDVS	TVVAWYQQKP	GQSPRRLIYS	50'
ASYRYIGVPD	RFTGSGAGTD	FTFTIISVQA	EDLAVYYCQQ	HYSPPYTFGG	100'
GTKLEIKRTV	AAPSVFIFPP	SDEQLKSGTA	SVVCLLNIFY	PREAKVQWKV	150'
DNALQSGNSQ	ESVTEQDSKD	STYLSSTLT	LSKADYEKHK	VYACEVTHQG	200'
LSSPVTKSFN	RGEC				214'

## Disulfide bridges location

22-96	22"-96"	23'-88'	23"'-88'"	134'-194'	134"'-194'"	147-203	147"-203"
214'-223	214"'-223'"	229-229"	232-232"	264-324	264"-324"	370-428	370"-428"

## Modified residues



## Glycosylation sites (N)

Asn-300 Asn-300'

## MOLECULAR FORMULA

C<sub>6456</sub>H<sub>9932</sub>N<sub>1700</sub>O<sub>2026</sub>S<sub>44</sub> (peptide)

MOLECULAR WEIGHT	145.2 kDa (peptide)
TRADEMARK	None as yet
SPONSOR	Sanofi-Aventis
CODE DESIGNATIONS	SAR650984
<u>CAS</u> REGISTRY NUMBER	1461640-62-9
UNII	R30772KCU0
WHO NUMBER	10068

gbk