

January 29, 2014

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

USAN (ZZ-138) DULIGOTUZUMAB

PRONUNCIATION doo lig" oh tooz' ue mab

THERAPEUTIC CLAIM Treatment of solid tumors

## CHEMICAL NAMES

1. Immunoglobulin G1, anti-(human epidermal growth factor receptor/epidermal growth factor receptor 3) (human monoclonal MEHD7945A heavy chain), disulfide with human monoclonal MEHD7945A light chain, dimer
2. Immunoglobulin G1-kappa, anti-[human epidermal growth factor receptor (proto-oncogene c-ErbB-1) and human receptor tyrosine-protein kinase erbB-3 (tyrosine kinase type cell surface receptor HER3)], *Homo sapiens* monoclonal antibody; gamma 1 heavy chain (1-451) [*Homo sapiens* VH (IGHV3-74\*01 (82.7%)-(IGHD)-IGHJ4\*01) [8.8.14] (1-121)-IGHG1\*03 CH1 R97>K(218) (122-451)], (224-214')-disulfide with kappa light chain (1'-214') [*Homo sapiens* V-KAPPA (IGKV1-39\*01 (87.4%)-IGKJ2\*01 L124>V(104)) [6.3.9] (1'-107')-IGKC\*01 (108'-214')]; dimer (230-230":233-233")-bisdisulfide

## STRUCTURAL FORMULA

## Heavy chain

EVQLVESGGG	LVQPGGSLRL	SCAASGFTLS	GDWIHWVRQA	PGKGLEWVGE	50
ISAAGGYTDY	ADSVKGRFTI	SADTSKNTAY	LQMNSLRAED	TAVYYCARES	100
RVSFEAAMDY	WGQGLVTVS	SASTKGPSVF	PLAPSSKSTS	GGTAALGCLV	150
KDYFPEPVTV	SWNSGALTS	VHTFPAVLQS	SGLYSLSSVV	TVPSSSLGTQ	200
TYICNVNHKP	SNTKVDKKE	PKSCDKTHTC	PPCPAPELLG	GPSVFLFPPK	250
PKDTLMISRT	PEVTCVVDV	SHEDPEVKFN	WYVDGVEVHN	AKTKPREEQY	300
NSTYRVVSVL	TVLHQDWLNG	KEYCKVSNK	ALPAPIEKTI	SKAKGQPREP	350
QVYTLPPSRE	EMTKNQVSLT	CLVKGFYPSD	IAVEWESNGQ	PENNYKTTTP	400
VLDSGDSFFL	YSKLTVDKSR	WQQGNVFSCS	VMHEALHNHY	TQKLSLSLSPG	450
K					451

## Light chain

DIQMTQSPSS	LSASVGDRVT	ITCRASQNI	TDVAWYQQK	GKAPKLLIYS	50'
ASFLYSGVPS	RFSGSGSGTD	F'LTLSLQ	EDFATYYCQ	SEPEPYTFGQ	100'
GTKVEIKRTV	AAPSVFIFPP	SDEQLKSGT	SVVCLLNNFY	PREAKVQWKV	150'
DNALQSGNSQ	ESVTEQDSK	STYLSSTLT	LSKADYEEKH	VYACEVTHQG	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

C<sub>6416</sub>H<sub>9920</sub>N<sub>1704</sub>O<sub>2028</sub>S<sub>44</sub>

DULIGOTUZUMAB

Page 2 of 2

N14

04

MOLECULAR WEIGHT

144.8 kDa

TRADEMARK

None as yet

SPONSOR

Genentech/Roche

CODE DESIGNATIONS

MEHD7945A, RG7597

CAS REGISTRY NUMBER

1314238-96-4

WHO NUMBER

9646

gbk