

January 28, 2015

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

USAN (cd-29) SOFITUZUMAB

PRONUNCIATION soe" fi tooz' ue mab

THERAPEUTIC CLAIM Treatment of ovarian cancer

## CHEMICAL NAMES

1. Immunoglobulin G1, anti-(human CA 125 (carbohydrate antigen)) (human-*Mus musculus* monoclonal MMUC1206A heavy chain), disulfide with human-*Mus musculus* monoclonal MMUC1206A light chain, dimer
2. Immunoglobulin G1-kappa, anti-(human mucin-16 (MUC-16, ovarian cancer-related tumor marker CA125, ovarian carcinoma antigen CA125)), humanized mouse monoclonal antibody:  $\gamma$ 1 heavy chain (1-445) [humanized VH (human IGHV3-48\*03 (80%) –(IGHD)-IGHJ4\*01 (93%) [9.8.9] (1-116) – human IGHG1\*03 [CH1 R<sup>97</sup>>K (213),CH3 K<sup>107</sup>del (446)] (117-445)] (219-214')-disulfide with kappa light chain (1'-214') [humanized V-KAPPA (human IGKV1-5\*01 (88%) –IGKJ1\*01) (92%) [6.3.9] (1'-107') –human IGKC\*01 (108'-214') dimer (225-225":228-228")-bisdisulfide

## STRUCTURAL FORMULA

## Heavy chain

EVQLVESGGG	LVQPGGSLRL	SCAASGYSIT	NDYAWNWRQ	APGKGLEWVG	50
YISYSGYTTY	NPSLKSRTTI	SRDTSKNTLY	LQMNSLRAED	TAVYYCARWT	100
SGLDYWGQGT	LVTVSSASTK	GPSVFPLAPS	SKSTSGGTAA	LGCLVKDYFP	150
EPVTVSWNSG	ALTSGVHTFP	AVLQSSGLYS	LSSVVTVPSS	SLGTQTYICN	200
VNHKPSNTKV	DKKVEPKSCD	KTHTCPPCPA	PELLGGPSVF	LFPPKPKDNL	250
MISRTPEVTC	VVDVSHEDP	EVKFNWYVDG	VEVHNAKTKP	REEQYNSTYR	300
VVSVLTIVLHQ	DWLNGKEYKC	KVSNKALPAP	IEKTIISKAKG	QPREPQVYTL	350
PPSREEMTKN	QVSLTCLVKG	FYPSDIAVEW	ESNGQPENNY	KITPPVLDSD	400
GSFFLYSKLT	VDKSRWQQGN	VFSCSVMHEA	LHNHYTQKSL	SLSPGK	446

## Light chain

DIQMTQSPSS	LSASVGDRVT	ITCKASDLIH	NWLAWYQQKP	GKAPKLLIYG	50'
ATSLETGVPS	RFSGSGSGTD	FRTLTISLQP	EDFATYYCQQ	YWTTPFTFGQ	100'
GTKVEIKRTV	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'''	143-199	143"-199"
214'-219	214'''-219'''	225-225"	228-228"	260-320	260"-320"	366-424	366"-424"

## Glycosylation sites (N)

Asn-296 Asn-296'

## MOLECULAR FORMULA

C<sub>6436</sub>H<sub>9908</sub>N<sub>1696</sub>O<sub>2008</sub>S<sub>42</sub> (peptide)

## MOLECULAR WEIGHT

144.5 kDa (peptide)

TRADEMARK	None as yet
SPONSOR	Genentech/Roche
CODE DESIGNATIONS	Anti-MUC16 ADC, MMUC1206A
<u>CAS</u> REGISTRY NUMBER	1615692-28-8
UNII	910KH73X8Q
WHO NUMBER	none

gbk