

December 30, 2014

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

USAN (BC-128) TEZEPELUMAB

PRONUNCIATION tez' e pel' ue mab

THERAPEUTIC CLAIM Treatment of asthma and atopic dermatitis

## CHEMICAL NAMES

1. Immunoglobulin G2, anti-(human thymic stromal lymphopietin) (human monoclonal MEDI9929 heavy chain), disulfide with human monoclonal MEDI9929  $\lambda$ -chain, dimer
2. Immunoglobulin G2-lambda, anti-(human thymic stromal lymphopietin); human monoclonal antibody:  $\gamma$ 2 heavy chain (1-448) [human VH (IGHV3-33\*01-(IGHD)-IGHJ3\*02) (94%) [8.8.15] (1-122) -IGHG2\*01 (123-448)] (136-213')-disulfide with lambda light chain (1'-214') [human V-LAMBDA (IGLV3-21\*02-IGKJ2\*01) (97%) [6.3.11] (1'-108') -IGLC2\*01 (109'-214')] dimer (224-224":225-225":228-228":231-231")-tetrakisdisulfide

## STRUCTURAL FORMULA

## Heavy chain

QMQLVESGGG	VVQPGRSLRL	SCAASGFTFR	TYGMHWVRQA	PGGLEWVAV	50
IWYDGSNKHY	ADSVKGRFTI	TRDNSKNTLN	LQMNSLRAED	TAVYYCARAP	100
QWELVHEAFD	IWGQGTMTTV	SSASTKGPSV	FPLAPCSRST	SESTAALGCL	150
VKDYFPEPVT	VSWNSGALTS	GVHTFPAVLQ	SSGLYSLSSV	VTVPSSNFGT	200
QTYTCNVDHK	PSNTKVDKTV	ERKCCVECPP	CPAPPVAGPS	VFLFPPKPKD	250
TLMISRTPEV	TCVVVDVSHE	DPEVQFNWYV	DGVEVHNAKT	KPREEQFNST	300
FRVVSVLTVV	HQDWLNGKEY	KCKVSNKGLP	APIEKTISKT	KGQPREPQVY	350
TLPPSREEMT	KNQVSLTCLV	KGFYPSDIAV	EWESNGQPEN	NYKTTPPMLD	400
SDGSFFLYSK	LTVDKSRWQQ	GNVFSCSVMH	EALHNHYTQK	SLSLSPGK	448

## Light chain

SYVLTQPPSV	SVAPGQTARI	TCGGNNLGSK	SVHWYQKPG	QAPVLVVYDD	50'
SDRPSWIPER	FSGSNSGNTA	TLTISRGEAG	DEADYQCQVW	DSSSDHVVFV	100'
GGTKLTVLQ	PKAAPSVTLF	PPSSEELQAN	KATLVCLISD	FYPGAVTVAV	150'
KADSSPVKAG	VETTTPSKQS	NNKYAASSYL	SLTPEQWKSH	RSYSCQVTHE	200'
GSTVEKTVAP	TECS				214'

## Disulfide bridges

22'-87'	22"-87"	22-96	22"-96"	136'-195'	136"-195"
136-213'	136"-213"	149-205	149"-205"	224-224"	225-225"
228-228"	231-231"	262-322	262"-322"	368-426	368"-426"

## Glycosylation sites (N)

Asn-298 Asn-298'

MOLECULAR FORMULA  $C_{6400}H_{9844}N_{1732}O_{1992}S_{52}$  (peptide)

MOLECULAR WEIGHT 144.6 kDa (peptide)

TRADEMARK None as yet

SPONSOR	MedImmune, LLC
CODE DESIGNATIONS	MEDI19929, AMG 157
<u>CAS</u> REGISTRY NUMBER	1572943-04-4
UNII	RJ1IW3B4QX
WHO NUMBER	10172

GBK