

May 26, 2016

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (DE-15) FRUNEVETMAB

PRONUNCIATION frue" ne vet' mab

THERAPEUTIC CLAIM Control of osteoarthritis pain in cats

CHEMICAL NAMES

1. Immunoglobulin G1, anti-(*Mus musculus* nerve growth factor) (*Felis catus-Rattus norvegicus* monoclonal NV-02 heavy chain), disulfide with *Felis catus-Rattus norvegicus* monoclonal NV-02 light chain, dimer

STRUCTURAL FORMULA

Heavy chain

| | | | | | |
|------------|------------|------------|-------------|------------|-----|
| QVQLVESGAE | LVQPGESLRL | TCAASGFSLT | NNNVNWRQA | PGKGLEWMGG | 50 |
| VWAGGATDYN | SALKSRLTIT | RDTSKNTVFL | QMHSLQSEDT | ATYYCARDGG | 100 |
| YSSSTLYAMD | AWGQGTTVTV | SAASTTAPSV | FPLAPSCGTT | SGATVALACL | 150 |
| VLGYFPEPVT | VSWNSGALTS | GVHTFPAVLQ | ASGLYSLSSM | VTVPSSRWLS | 200 |
| DTFTCNVAHP | PSNTKVDKTV | RKTDHPPGPK | PCDCPKCPPP | EMLGGPSIFI | 250 |
| FPPKPKDTLS | ISRTPEVTCL | VVDLGPDDSD | VQITWFVDNT | QVYTAKTSPR | 300 |
| EEQFNSTYRV | VSVLPILHQD | WLKGKEFKCK | VNSKSLPSP I | ERTISKAKGQ | 350 |
| PHEPQVYVLP | PAQEELSRNK | VSVTCLIKSF | HPPDIAVEWE | ITGQPEPENN | 400 |
| YRTTPPQLDS | DGTYFVYSKL | SVDRSHWQRG | NTYTCSVSHE | ALHSHHTQKS | 450 |
| LTQSPGK | | | | | 457 |

Light chain

| | | | | | |
|------------|------------|------------|------------|------------|------|
| DIEMTQSPLS | LSVTPGESVS | ISCRASEDIY | NALAWYLQKP | GRSPRLLIYN | 50' |
| TDTLHTGVPD | RFSGSGSGTD | FTLKISRVTQ | EDVGVYFCQH | YFHYPRTFGQ | 100' |
| GTKLELKRSD | AQPSVFLFQP | SLDELHTGSA | SIVCILNDFY | PKEVNVKWKV | 150' |
| DGVVQNKGIQ | ESTTEQNSKD | STYLSSTLT | MSSTEYQSHE | KFSCEVTHKS | 200' |
| LASTLVKSFN | RSECQRE | | | | 217' |

Disulfide bridges

| | | | | | | | | |
|----------|---------------|----------|-------------|-----------|---------------|-----------|-----------|-----------|
| 22-95 | 22"-95" | 23'-88' | 23'''-88''' | 134'-194' | 134'''-194''' | 149-205 | 149"-205" | |
| 214'-137 | 214'''-137''' | 232-232" | 234-234" | 237-237" | 269"-329" | 269"-329" | 375-435 | 375"-435" |

MOLECULAR FORMULA $C_{6540}H_{10114}N_{1768}O_{2060}S_{48}$

MOLECULAR WEIGHT 148.0 kDa

TRADEMARK None

SPONSOR Nexvet Australia Pty Ltd

CODE DESIGNATIONS NV-02

CAS REGISTRY NUMBER 1708936-80-4

UNII 77O28MCS79

WHO NUMBER 10440

gbk