

SEQUENCE LISTING

<110> Array BioPharma, Inc.

<120> SUBSTITUTED PYRAZOLO[1,5-A]PYRIDINE COMPOUNDS AS RET KINASE INHIBITORS

<130> 40449-0062W01

<150> 62/406,252

<151> 2017-10-10

<150> 62/447,850

<151> 2017-01-18

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<151> 2017-04-27

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<151> 2017-09-29

<160> 1

<170> PatentIn version 3.5

<210> 1

<211> 1114

<212> PRT

<213> Homo sapiens

<400> 1

Met Ala Lys Ala Thr Ser Gly Ala Ala Gly Leu Arg Leu Leu Leu Leu
1 5 10 15

Leu Leu Leu Pro Leu Leu Gly Lys Val Ala Leu Gly Leu Tyr Phe Ser
20 25 30

Arg Asp Ala Tyr Trp Glu Lys Leu Tyr Val Asp Gln Ala Ala Gly Thr
35 40 45

Pro Leu Leu Tyr Val His Ala Leu Arg Asp Ala Pro Glu Glu Val Pro
50 55 60

Ser Phe Arg Leu Gly Gln His Leu Tyr Gly Thr Tyr Arg Thr Arg Leu
65 70 75 80

His Glu Asn Asn Trp Ile Cys Ile Gln Glu Asp Thr Gly Leu Leu Tyr

			85					90				95			
Leu	Asn	Arg	Ser	Leu	Asp	His	Ser	Ser	Trp	Glu	Lys	Leu	Ser	Val	Arg
			100					105					110		
Asn	Arg	Gly	Phe	Pro	Leu	Leu	Thr	Val	Tyr	Leu	Lys	Val	Phe	Leu	Ser
		115					120					125			
Pro	Thr	Ser	Leu	Arg	Glu	Gly	Glu	Cys	Gln	Trp	Pro	Gly	Cys	Ala	Arg
	130					135					140				
Val	Tyr	Phe	Ser	Phe	Phe	Asn	Thr	Ser	Phe	Pro	Ala	Cys	Ser	Ser	Leu
145					150					155					160
Lys	Pro	Arg	Glu	Leu	Cys	Phe	Pro	Glu	Thr	Arg	Pro	Ser	Phe	Arg	Ile
			165					170						175	
Arg	Glu	Asn	Arg	Pro	Pro	Gly	Thr	Phe	His	Gln	Phe	Arg	Leu	Leu	Pro
		180						185					190		
Val	Gln	Phe	Leu	Cys	Pro	Asn	Ile	Ser	Val	Ala	Tyr	Arg	Leu	Leu	Glu
		195					200					205			
Gly	Glu	Gly	Leu	Pro	Phe	Arg	Cys	Ala	Pro	Asp	Ser	Leu	Glu	Val	Ser
	210					215					220				
Thr	Arg	Trp	Ala	Leu	Asp	Arg	Glu	Gln	Arg	Glu	Lys	Tyr	Glu	Leu	Val
225					230					235					240
Ala	Val	Cys	Thr	Val	His	Ala	Gly	Ala	Arg	Glu	Glu	Val	Val	Met	Val
				245					250					255	
Pro	Phe	Pro	Val	Thr	Val	Tyr	Asp	Glu	Asp	Asp	Ser	Ala	Pro	Thr	Phe
			260					265					270		
Pro	Ala	Gly	Val	Asp	Thr	Ala	Ser	Ala	Val	Val	Glu	Phe	Lys	Arg	Lys
		275					280					285			
Glu	Asp	Thr	Val	Val	Ala	Thr	Leu	Arg	Val	Phe	Asp	Ala	Asp	Val	Val
	290					295					300				

Pro Ala Ser Gly Glu Leu Val Arg Arg Tyr Thr Ser Thr Leu Leu Pro
 305 310 315 320

Gly Asp Thr Trp Ala Gln Gln Thr Phe Arg Val Glu His Trp Pro Asn
 325 330 335

Glu Thr Ser Val Gln Ala Asn Gly Ser Phe Val Arg Ala Thr Val His
 340 345 350

Asp Tyr Arg Leu Val Leu Asn Arg Asn Leu Ser Ile Ser Glu Asn Arg
 355 360 365

Thr Met Gln Leu Ala Val Leu Val Asn Asp Ser Asp Phe Gln Gly Pro
 370 375 380

Gly Ala Gly Val Leu Leu Leu His Phe Asn Val Ser Val Leu Pro Val
 385 390 395 400

Ser Leu His Leu Pro Ser Thr Tyr Ser Leu Ser Val Ser Arg Arg Ala
 405 410 415

Arg Arg Phe Ala Gln Ile Gly Lys Val Cys Val Glu Asn Cys Gln Ala
 420 425 430

Phe Ser Gly Ile Asn Val Gln Tyr Lys Leu His Ser Ser Gly Ala Asn
 435 440 445

Cys Ser Thr Leu Gly Val Val Thr Ser Ala Glu Asp Thr Ser Gly Ile
 450 455 460

Leu Phe Val Asn Asp Thr Lys Ala Leu Arg Arg Pro Lys Cys Ala Glu
 465 470 475 480

Leu His Tyr Met Val Val Ala Thr Asp Gln Gln Thr Ser Arg Gln Ala
 485 490 495

Gln Ala Gln Leu Leu Val Thr Val Glu Gly Ser Tyr Val Ala Glu Glu
 500 505 510

Ala Gly Cys Pro Leu Ser Cys Ala Val Ser Lys Arg Arg Leu Glu Cys
 515 520 525

Glu Glu Cys Gly Gly Leu Gly Ser Pro Thr Gly Arg Cys Glu Trp Arg
530 535 540

Gln Gly Asp Gly Lys Gly Ile Thr Arg Asn Phe Ser Thr Cys Ser Pro
545 550 555 560

Ser Thr Lys Thr Cys Pro Asp Gly His Cys Asp Val Val Glu Thr Gln
565 570 575

Asp Ile Asn Ile Cys Pro Gln Asp Cys Leu Arg Gly Ser Ile Val Gly
580 585 590

Gly His Glu Pro Gly Glu Pro Arg Gly Ile Lys Ala Gly Tyr Gly Thr
595 600 605

Cys Asn Cys Phe Pro Glu Glu Glu Lys Cys Phe Cys Glu Pro Glu Asp
610 615 620

Ile Gln Asp Pro Leu Cys Asp Glu Leu Cys Arg Thr Val Ile Ala Ala
625 630 635 640

Ala Val Leu Phe Ser Phe Ile Val Ser Val Leu Leu Ser Ala Phe Cys
645 650 655

Ile His Cys Tyr His Lys Phe Ala His Lys Pro Pro Ile Ser Ser Ala
660 665 670

Glu Met Thr Phe Arg Arg Pro Ala Gln Ala Phe Pro Val Ser Tyr Ser
675 680 685

Ser Ser Gly Ala Arg Arg Pro Ser Leu Asp Ser Met Glu Asn Gln Val
690 695 700

Ser Val Asp Ala Phe Lys Ile Leu Glu Asp Pro Lys Trp Glu Phe Pro
705 710 715 720

Arg Lys Asn Leu Val Leu Gly Lys Thr Leu Gly Glu Gly Glu Phe Gly
725 730 735

Lys Val Val Lys Ala Thr Ala Phe His Leu Lys Gly Arg Ala Gly Tyr
740 745 750

Thr Thr Val Ala Val Lys Met Leu Lys Glu Asn Ala Ser Pro Ser Glu
755 760 765

Leu Arg Asp Leu Leu Ser Glu Phe Asn Val Leu Lys Gln Val Asn His
770 775 780

Pro His Val Ile Lys Leu Tyr Gly Ala Cys Ser Gln Asp Gly Pro Leu
785 790 795 800

Leu Leu Ile Val Glu Tyr Ala Lys Tyr Gly Ser Leu Arg Gly Phe Leu
805 810 815

Arg Glu Ser Arg Lys Val Gly Pro Gly Tyr Leu Gly Ser Gly Gly Ser
820 825 830

Arg Asn Ser Ser Ser Leu Asp His Pro Asp Glu Arg Ala Leu Thr Met
835 840 845

Gly Asp Leu Ile Ser Phe Ala Trp Gln Ile Ser Gln Gly Met Gln Tyr
850 855 860

Leu Ala Glu Met Lys Leu Val His Arg Asp Leu Ala Ala Arg Asn Ile
865 870 875 880

Leu Val Ala Glu Gly Arg Lys Met Lys Ile Ser Asp Phe Gly Leu Ser
885 890 895

Arg Asp Val Tyr Glu Glu Asp Ser Tyr Val Lys Arg Ser Gln Gly Arg
900 905 910

Ile Pro Val Lys Trp Met Ala Ile Glu Ser Leu Phe Asp His Ile Tyr
915 920 925

Thr Thr Gln Ser Asp Val Trp Ser Phe Gly Val Leu Leu Trp Glu Ile
930 935 940

Val Thr Leu Gly Gly Asn Pro Tyr Pro Gly Ile Pro Pro Glu Arg Leu
945 950 955 960

Phe Asn Leu Leu Lys Thr Gly His Arg Met Glu Arg Pro Asp Asn Cys

965

970

975

Ser Glu Glu Met Tyr Arg Leu Met Leu Gln Cys Trp Lys Gln Glu Pro
 980 985 990

Asp Lys Arg Pro Val Phe Ala Asp Ile Ser Lys Asp Leu Glu Lys Met
 995 1000 1005

Met Val Lys Arg Arg Asp Tyr Leu Asp Leu Ala Ala Ser Thr Pro
 1010 1015 1020

Ser Asp Ser Leu Ile Tyr Asp Asp Gly Leu Ser Glu Glu Glu Thr
 1025 1030 1035

Pro Leu Val Asp Cys Asn Asn Ala Pro Leu Pro Arg Ala Leu Pro
 1040 1045 1050

Ser Thr Trp Ile Glu Asn Lys Leu Tyr Gly Met Ser Asp Pro Asn
 1055 1060 1065

Trp Pro Gly Glu Ser Pro Val Pro Leu Thr Arg Ala Asp Gly Thr
 1070 1075 1080

Asn Thr Gly Phe Pro Arg Tyr Pro Asn Asp Ser Val Tyr Ala Asn
 1085 1090 1095

Trp Met Leu Ser Pro Ser Ala Ala Lys Leu Met Asp Thr Phe Asp
 1100 1105 1110

Ser