

Sequence Listings_4632963_1
SEQUENCE LISTING

<110> Wong, Bing Lou

<120> PHARMACEUTICAL COMPOSITION COMPRISING RECOMBINANT HEMOGLOBIN PROTEIN OR SUBUNIT-BASED THERAPEUTIC AGENT FOR CANCER TARGETING TREATMENT

<130> P7797US01

<150> US 62/019,925
<151> 2014-07-02

<150> US 14752999
<151> 2015-06-28

<160> 4

<170> PatentIn version 3.5

<210> 1
<211> 141
<212> PRT
<213> Homo sapiens

<400> 1

Val Leu Ser Pro Ala Asp Lys Thr Asn Val Lys Ala Ala Trp Gly Lys
1 5 10 15

Val Gly Ala His Ala Gly Glu Tyr Gly Ala Glu Ala Leu Glu Arg Met
20 25 30

Phe Leu Ser Phe Pro Thr Thr Lys Thr Tyr Phe Pro His Phe Asp Leu
35 40 45

Ser His Gly Ser Ala Gln Val Lys Gly His Gly Lys Lys Val Ala Asp
50 55 60

Ala Leu Thr Asn Ala Val Ala His Val Asp Asp Met Pro Asn Ala Leu
65 70 75 80

Ser Ala Leu Ser Asp Leu His Ala His Lys Leu Arg Val Asp Pro Val
85 90 95

Asn Phe Lys Leu Leu Ser His Cys Leu Leu Val Thr Leu Ala Ala His
100 105 110

Leu Pro Ala Glu Phe Thr Pro Ala Val His Ala Ser Leu Asp Lys Phe
115 120 125

Leu Ala Ser Val Ser Thr Val Leu Thr Ser Lys Tyr Arg
130 135 140

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<210> 2
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 2

Val His Leu Thr Pro Glu Glu Lys Ser Ala Val Thr Ala Leu Trp Gly
 1 5 10 15

Lys Val Asn Val Asp Glu Val Gly Gly Glu Ala Leu Gly Arg Leu Leu
 20 25 30

Val Val Tyr Pro Trp Thr Gln Arg Phe Phe Glu Ser Phe Gly Asp Leu
 35 40 45

Ser Thr Pro Asp Ala Val Met Gly Asn Pro Lys Val Lys Ala His Gly
 50 55 60

Lys Lys Val Leu Gly Ala Phe Ser Asp Gly Leu Ala His Leu Asp Asn
 65 70 75 80

Leu Lys Gly Thr Phe Ala Thr Leu Ser Glu Leu His Cys Asp Lys Leu
 85 90 95

His Val Asp Pro Glu Asn Phe Arg Leu Leu Gly Asn Val Leu Val Cys
 100 105 110

Val Leu Ala His His Phe Gly Lys Glu Phe Thr Pro Pro Val Gln Ala
 115 120 125

Ala Tyr Gln Lys Val Val Ala Gly Val Ala Asn Ala Leu Ala His Lys
 130 135 140

Tyr His
 145

<210> 3
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 3

Gly His Phe Thr Glu Glu Asp Lys Ala Thr Ile Thr Ser Leu Trp Gly
 1 5 10 15

Lys Val Asn Val Glu Asp Ala Gly Gly Glu Thr Leu Gly Arg Leu Leu
 20 25 30

Val Val Tyr Pro Trp Thr Gln Arg Phe Phe Asp Ser Phe Gly Asn Leu

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35

40

45

Ser Ser Ala Ser Ala Ile Met Gly Asn Pro Lys Val Lys Ala His Gly
50 55 60

Lys Lys Val Leu Thr Ser Leu Gly Asp Ala Thr Lys His Leu Asp Asp
65 70 75 80

Leu Lys Gly Thr Phe Ala Gln Leu Ser Glu Leu His Cys Asp Lys Leu
85 90 95

His Val Asp Pro Glu Asn Phe Lys Leu Leu Gly Asn Val Leu Val Thr
100 105 110

Val Leu Ala Ile His Phe Gly Lys Glu Phe Thr Pro Glu Val Gln Ala
115 120 125

Ser Trp Gln Lys Met Val Thr Ala Val Ala Ser Ala Leu Ser Ser Arg
130 135 140

Tyr His
145

<210> 4
<211> 146
<212> PRT
<213> Homo sapiens
<400> 4

Gly His Phe Thr Glu Glu Asp Lys Ala Thr Ile Thr Ser Leu Trp Gly
1 5 10 15

Lys Val Asn Val Glu Asp Ala Gly Gly Glu Thr Leu Gly Arg Leu Leu
20 25 30

Val Val Tyr Pro Trp Thr Gln Arg Phe Phe Asp Ser Phe Gly Asn Leu
35 40 45

Ser Ser Ala Ser Ala Ile Met Gly Asn Pro Lys Val Lys Ala His Gly
50 55 60

Lys Lys Val Leu Thr Ser Leu Gly Asp Ala Ile Lys His Leu Asp Asp
65 70 75 80

Leu Lys Gly Thr Phe Ala Gln Leu Ser Glu Leu His Cys Asp Lys Leu
85 90 95

His Val Asp Pro Glu Asn Phe Lys Leu Leu Gly Asn Val Leu Val Thr

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100

105

110

Val Leu Ala Ile His Phe Gly Lys Glu Phe Thr Pro Glu Val Gln Ala
115 120 125

Ser Trp Gln Lys Met Val Thr Gly Val Ala Ser Ala Leu Ser Ser Arg
130 135 140

Tyr His
145