

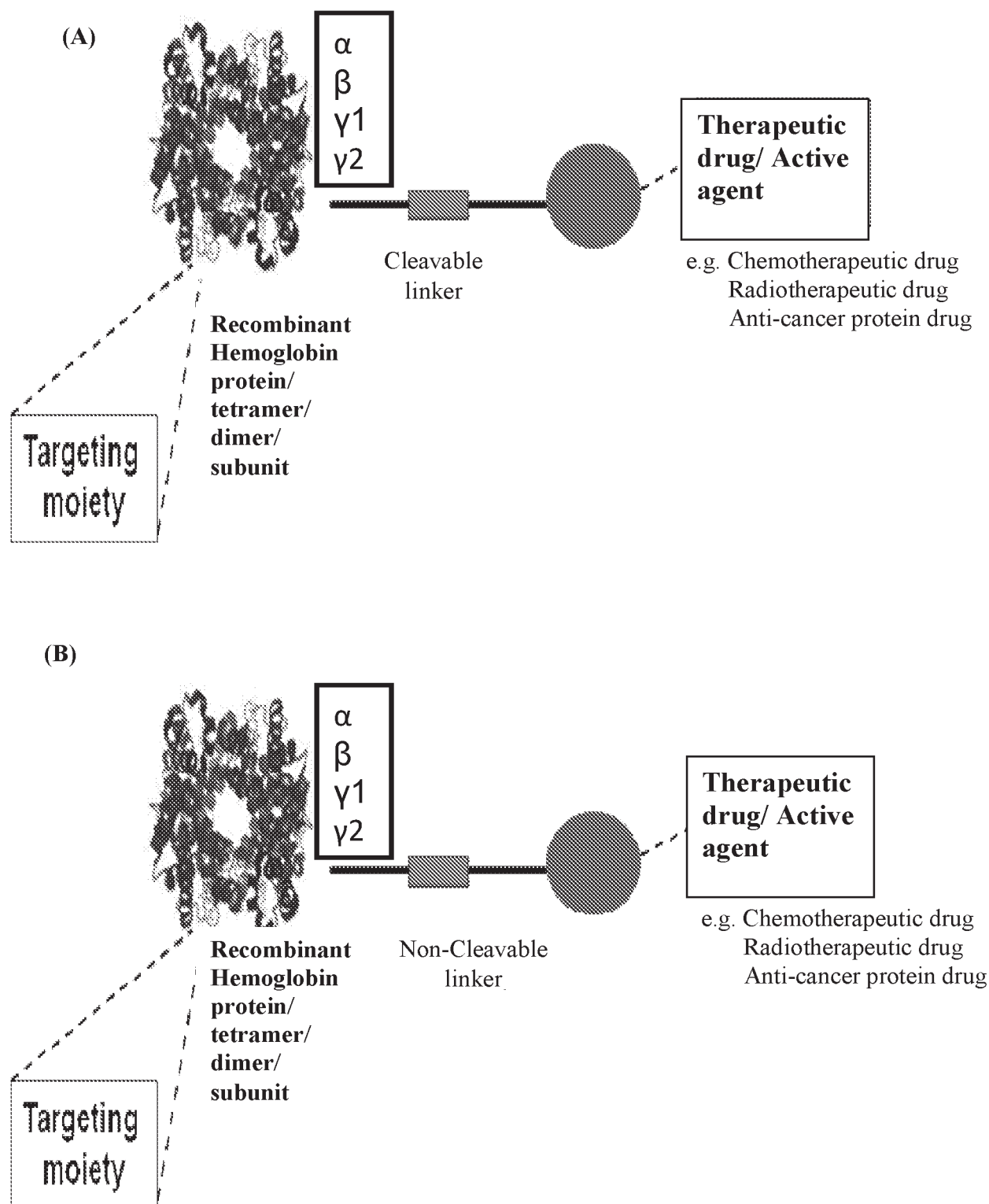
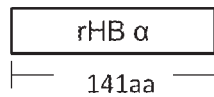


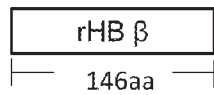
FIG. 1

(A) Recombinant Hemoglobin Subunit/Monomer

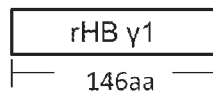
(1) Homo sapiens hemoglobin monomer, alpha (α) subunit, 141 aa. (SEQ. ID No. 1)



(2) Homo sapiens hemoglobin monomer, beta (β) subunit, 146 aa. (SEQ. ID No. 2)



(3) Homo sapiens hemoglobin monomer, gamma 1 (γ 1) subunit, 146aa. (SEQ. ID No. 3)



(4) Homo sapiens hemoglobin monomer, gamma 2 (γ 2) subunit, 146aa. (SEQ ID No. 4)

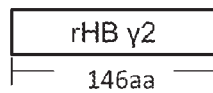


FIG. 2

(B) Recombinant Hemoglobin Dimer

(5) Recombinant hemoglobin dimer, $\alpha\beta$

rHB α	rHB β
141 aa	146 aa

(6) Recombinant hemoglobin dimer, $\alpha\gamma_1$

rHB α	rHB γ_1
141 aa	146 aa

(7) Recombinant hemoglobin dimer, $\alpha\gamma_2$

rHB α	rHB γ_2
141 aa	146 aa

(8) Recombinant hemoglobin dimer, $\beta\gamma_1$

rHB β	rHB γ_1
146 aa	146 aa

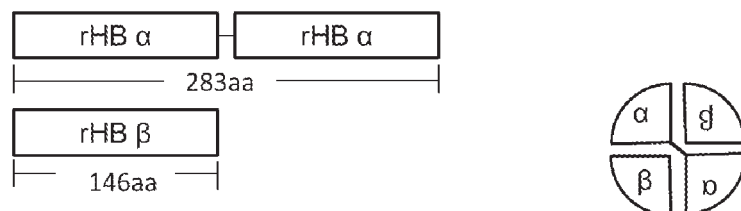
(9) Recombinant hemoglobin dimer, $\beta\gamma_2$

rHB β	rHB γ_2
146 aa	146 aa

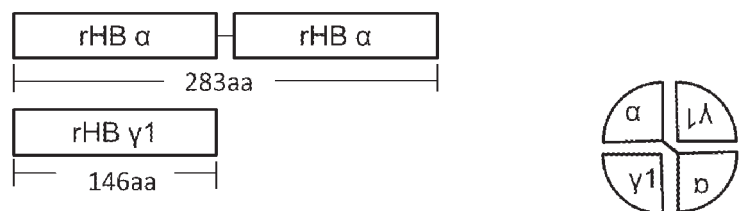
FIG. 2 (Continued)

(C) Recombinant Hemoglobin Tetramer

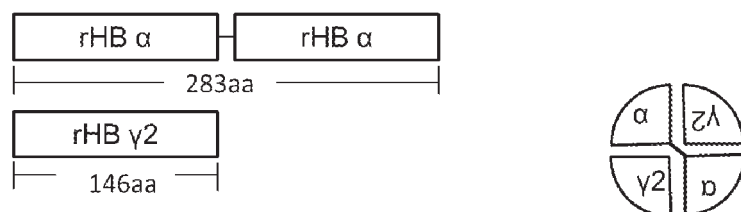
(10) Recombinant Hemoglobin Tetramer, $2\alpha\beta_2$



(11) Recombinant Hemoglobin Tetramer, $2\alpha\gamma_1$



(12) Recombinant Hemoglobin Tetramer, $2\alpha\gamma_2$



(13) Recombinant Hemoglobin Tetramer, $2\beta\gamma_1$

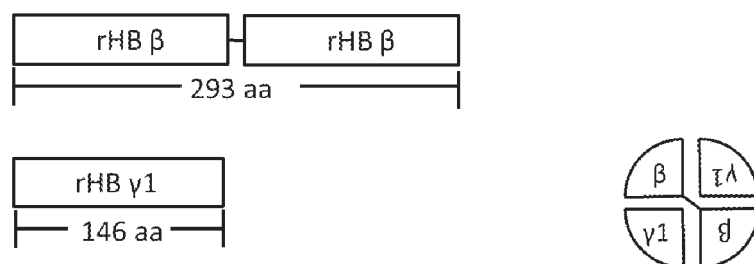


FIG. 2 (Continued)

(14) Recombinant Hemoglobin Tetramer, $2\beta\gamma_2$

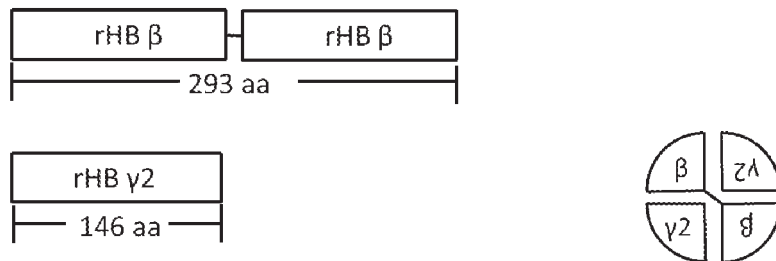


FIG. 2 (Continued)

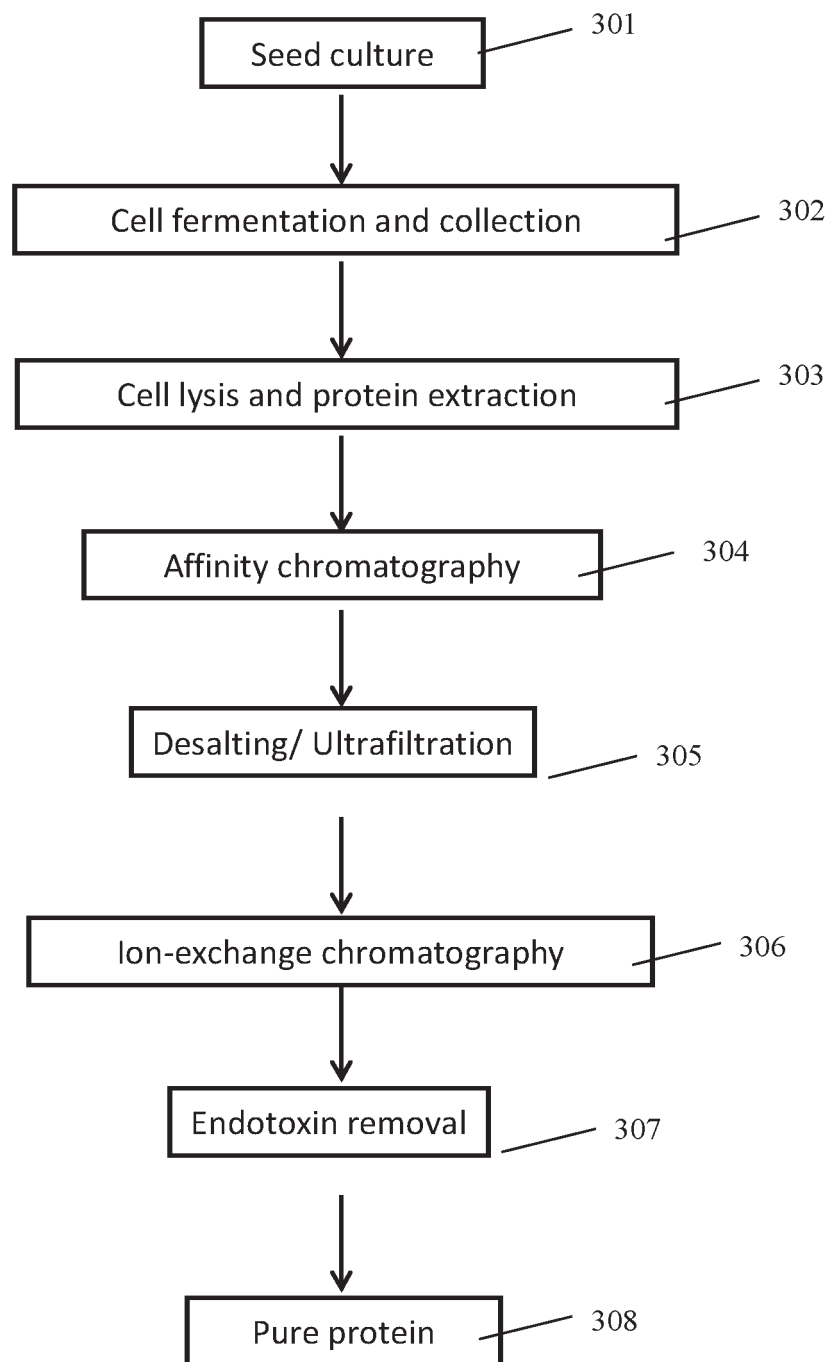
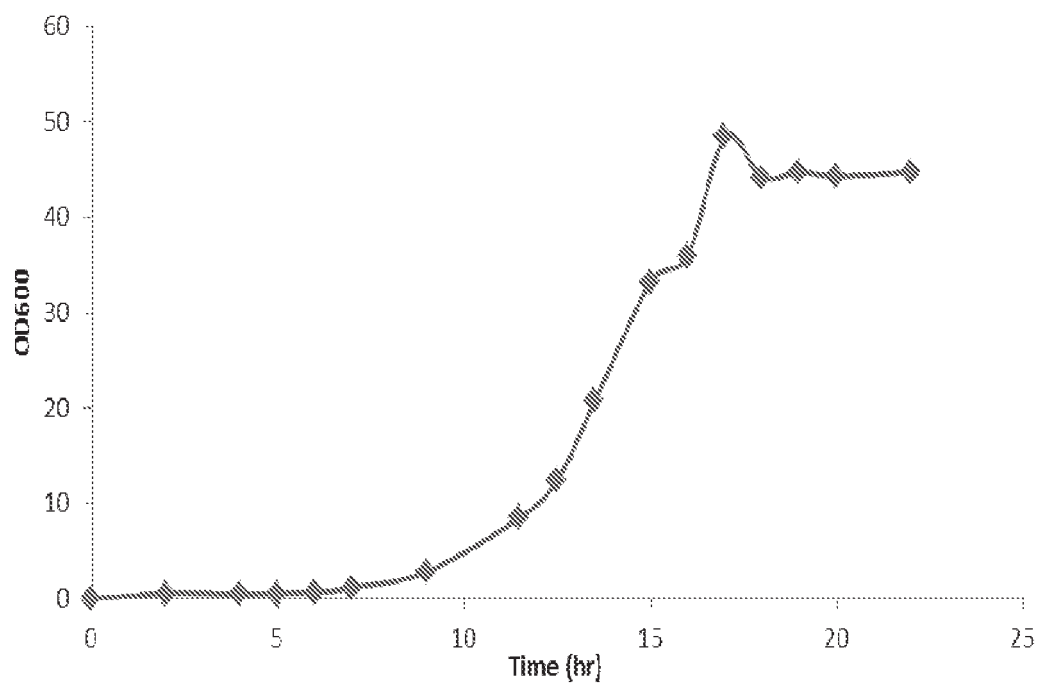


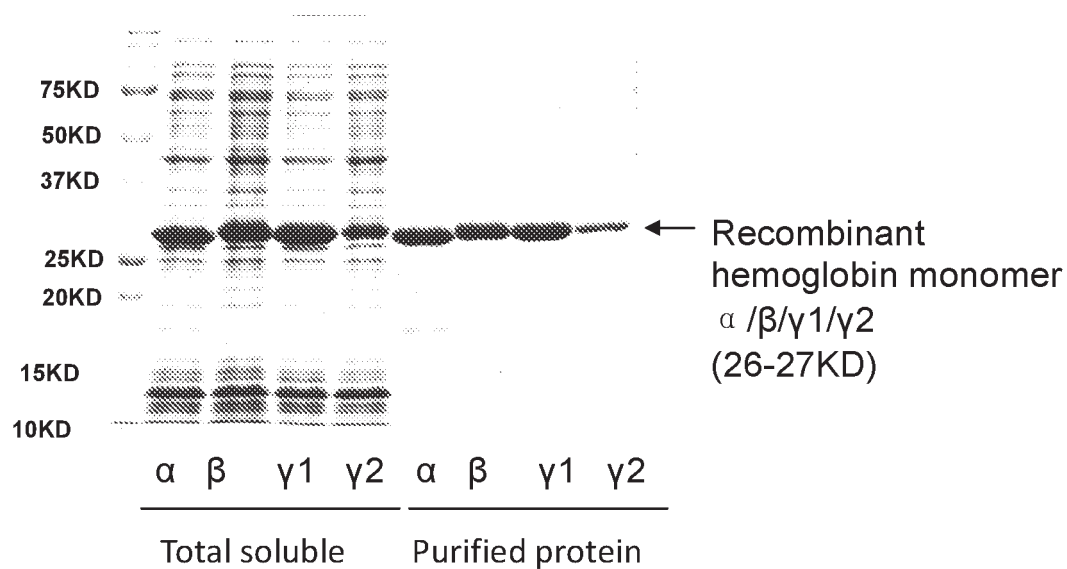
FIG. 3



Final culture volume	1350ml
Mass of cell pellet (wet weight)	77.6g
Final protein yield	0.18g/L

FIG. 4

(A)



(B)

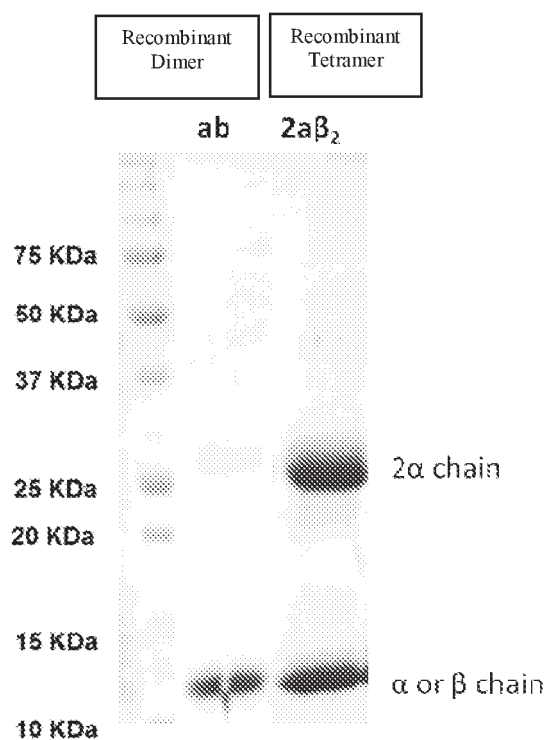


FIG. 5

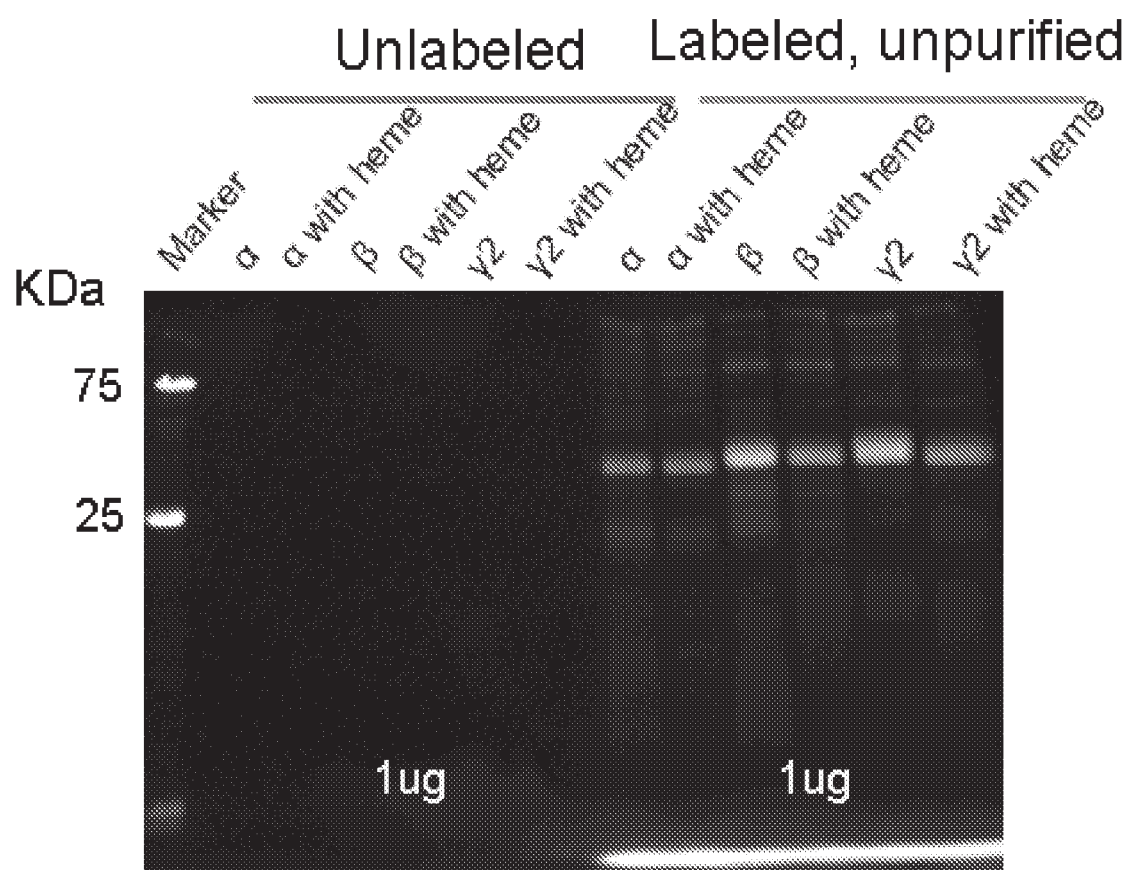


FIG. 6

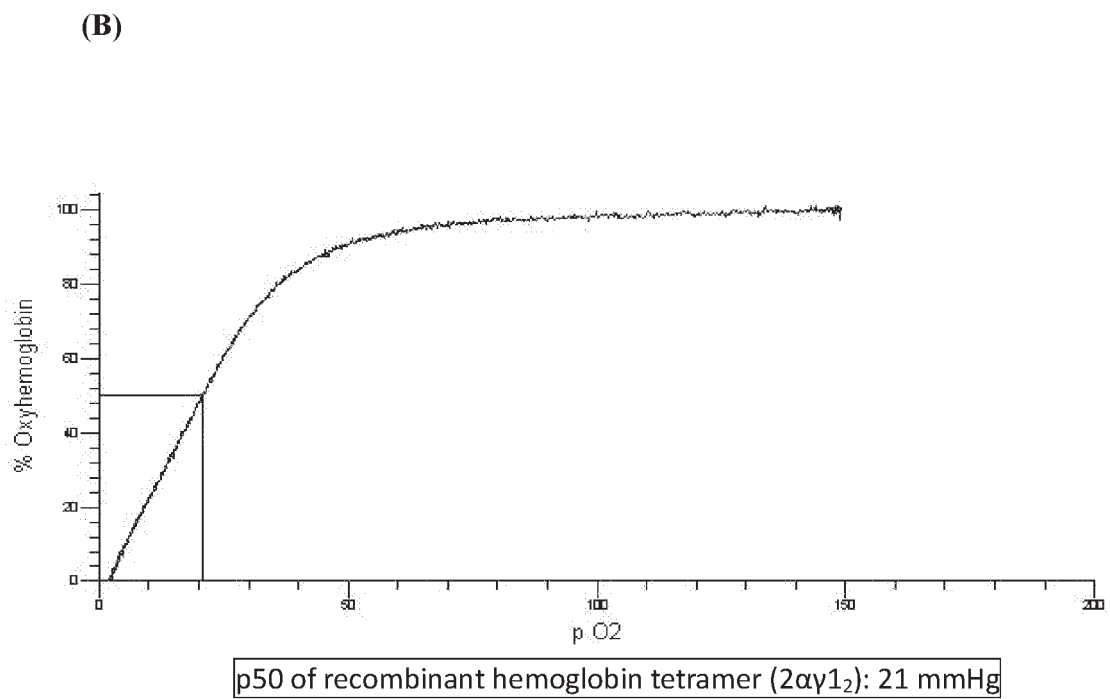
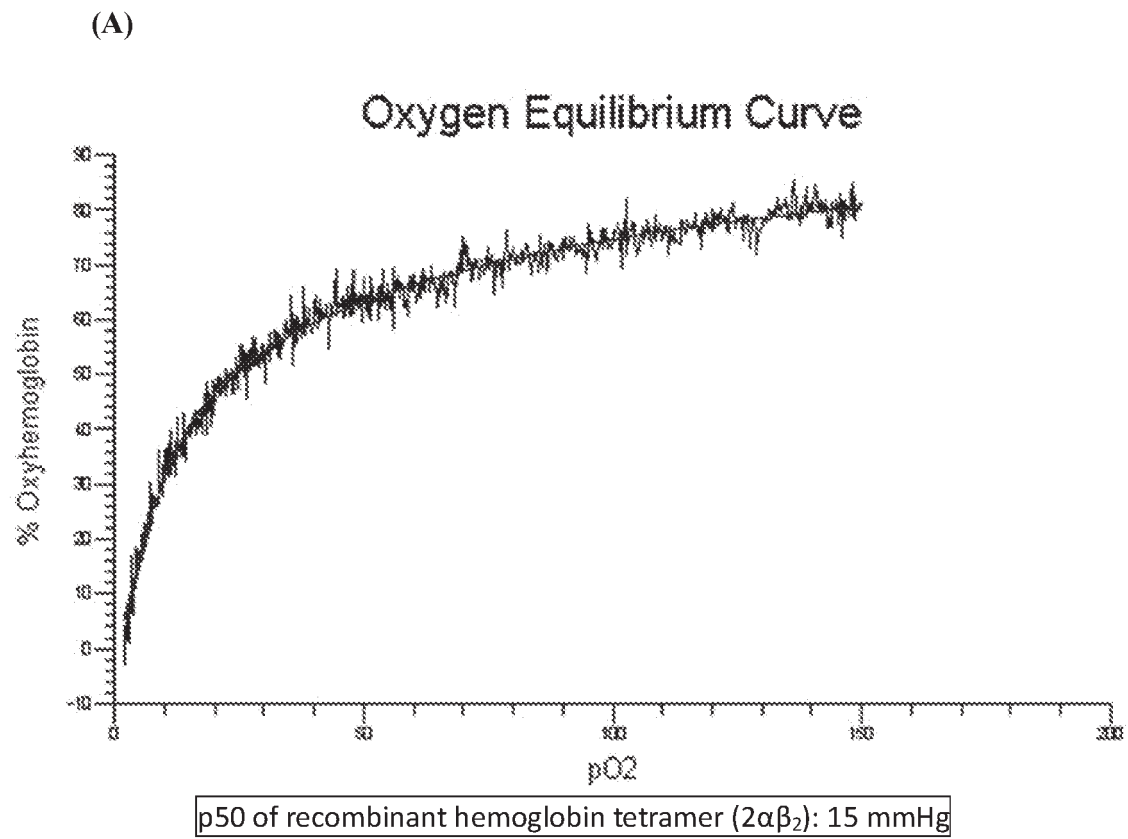


FIG. 7

[illegible]

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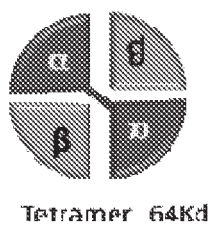
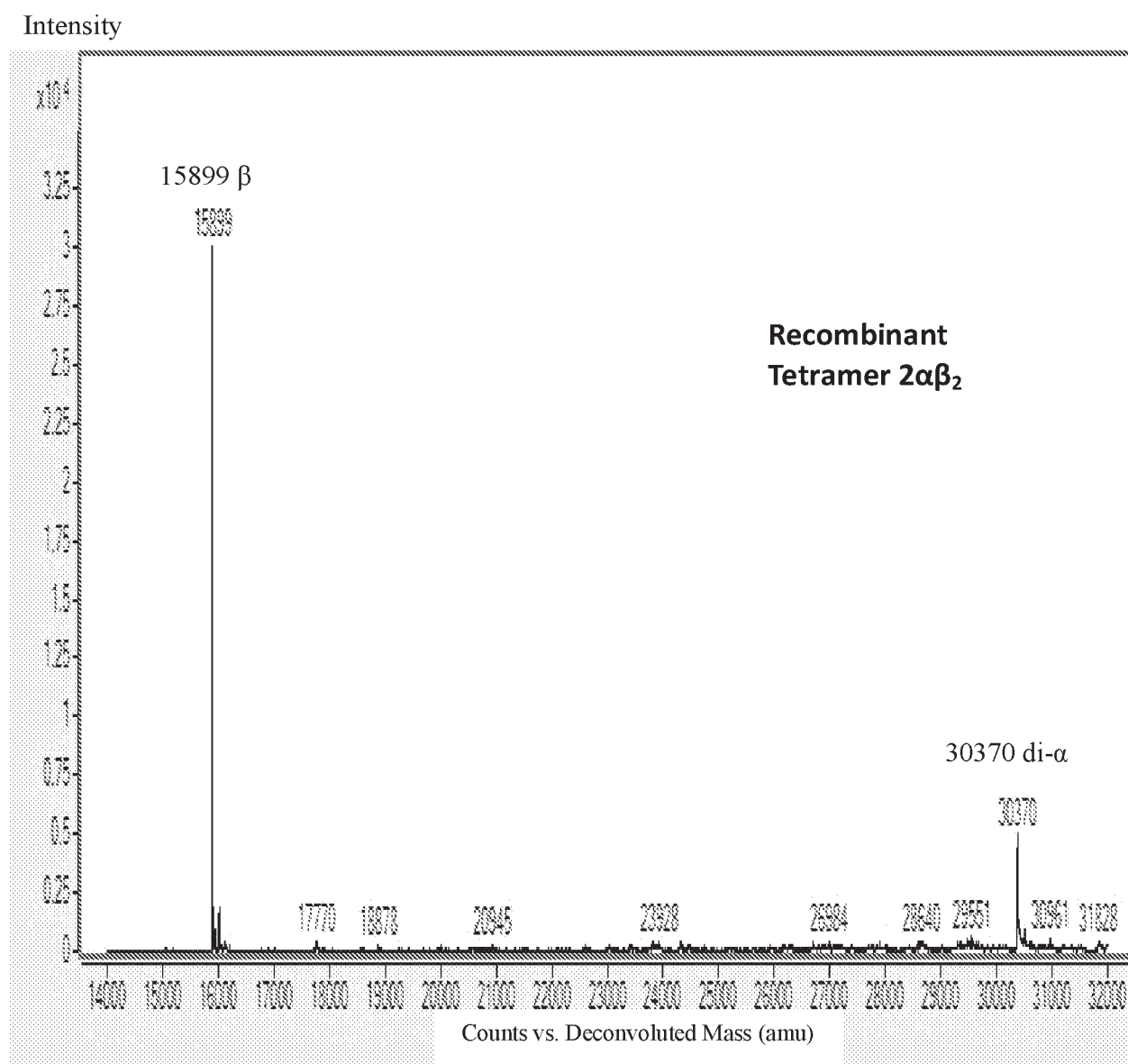


FIG. 9

Intensity

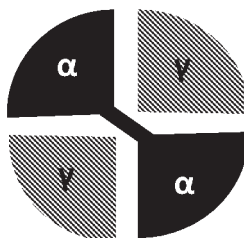
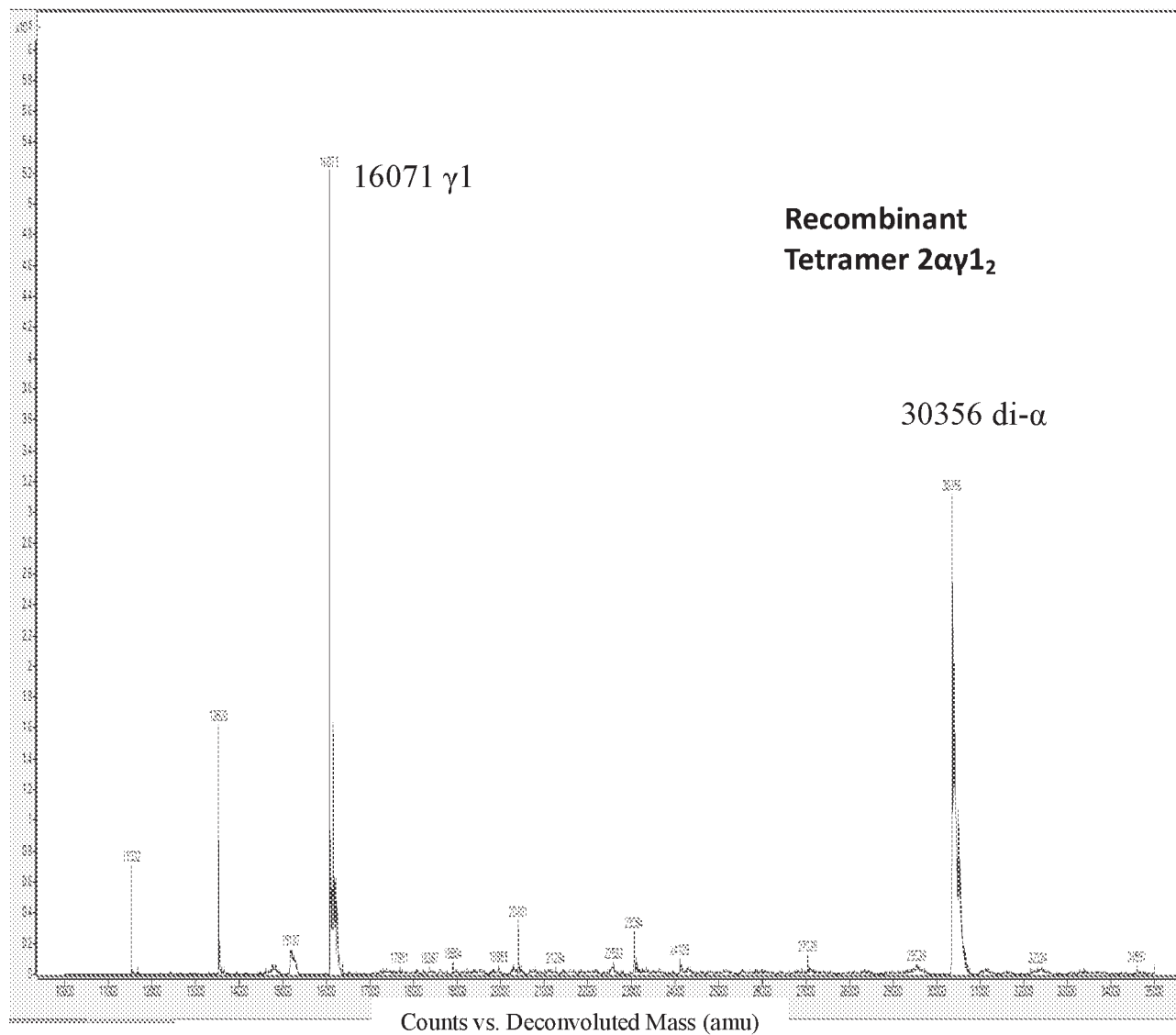


FIG. 9 (Continued)

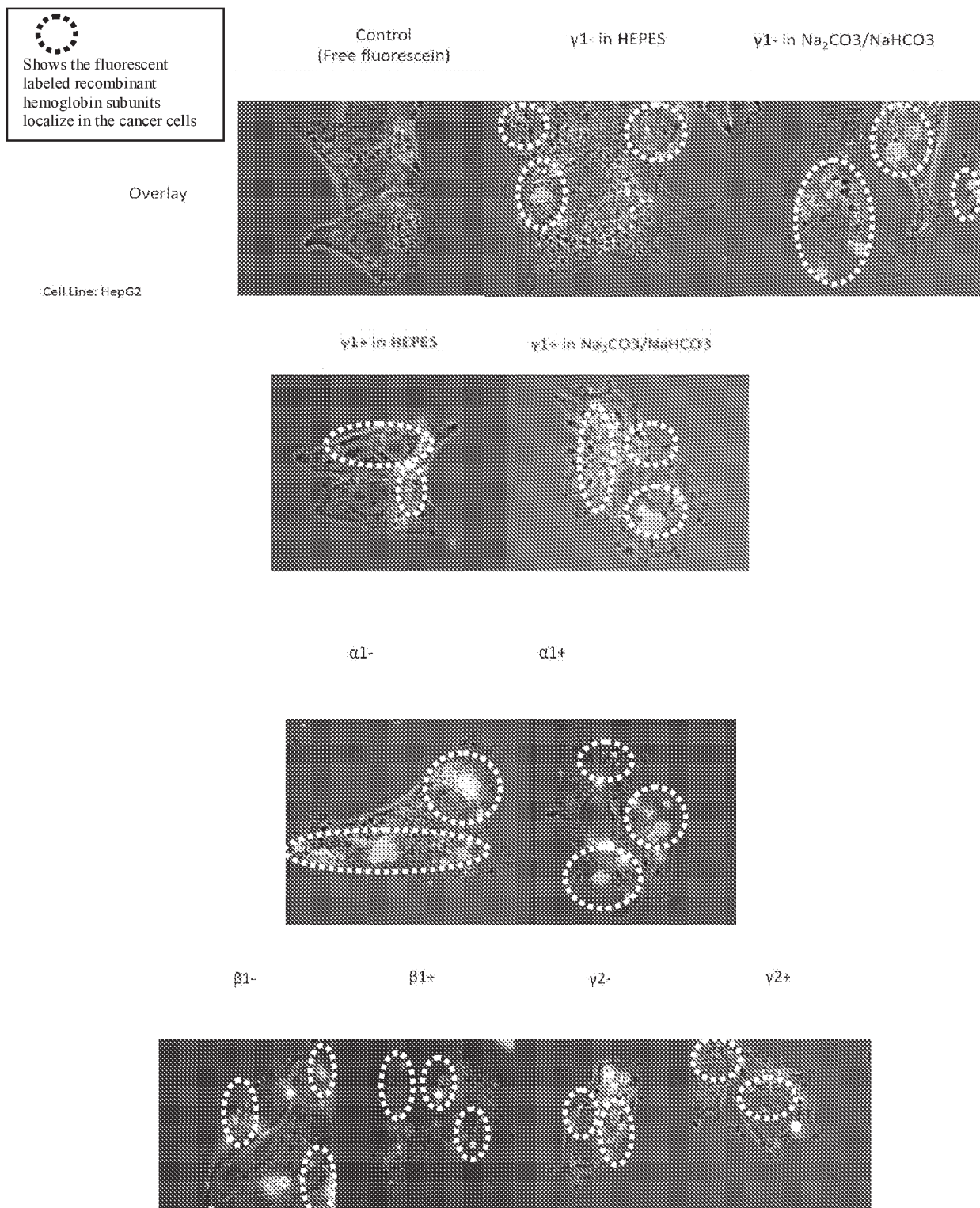
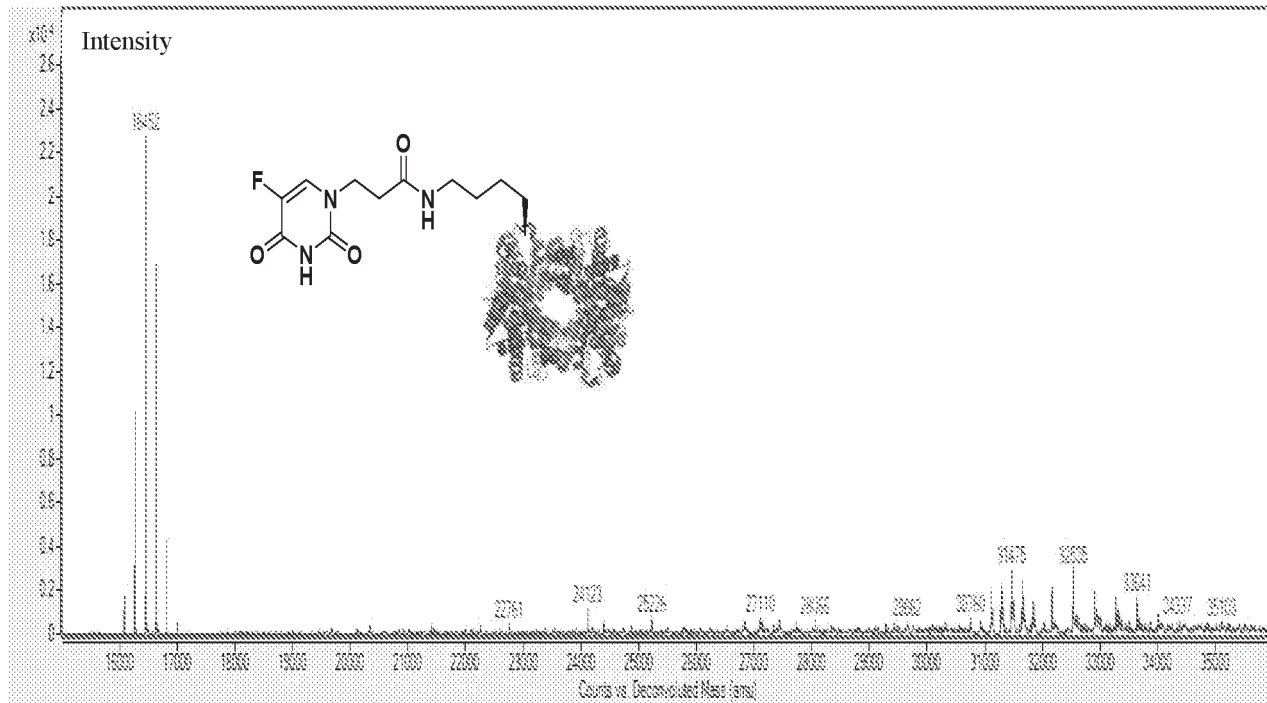


FIG. 10

(A)



(B)

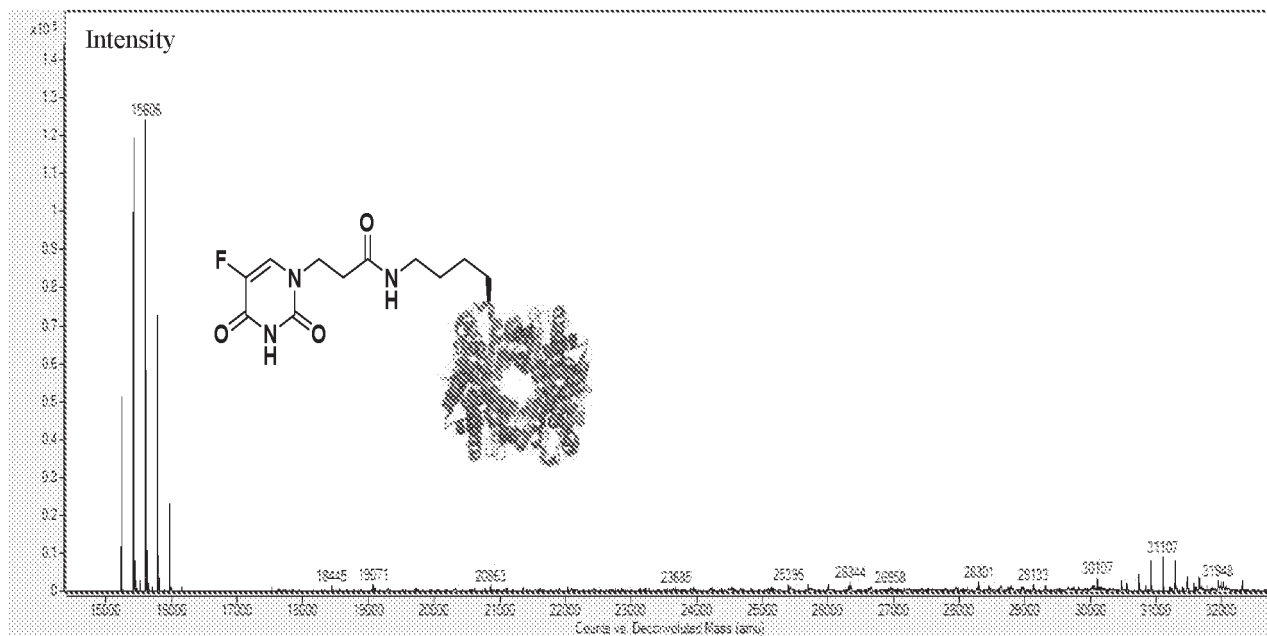
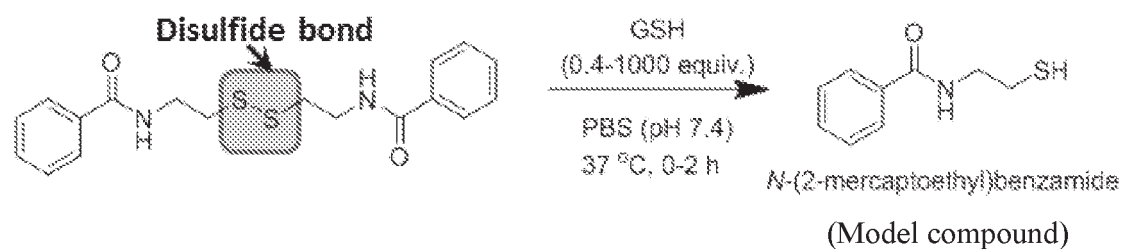


FIG. 11

(A)



(B)

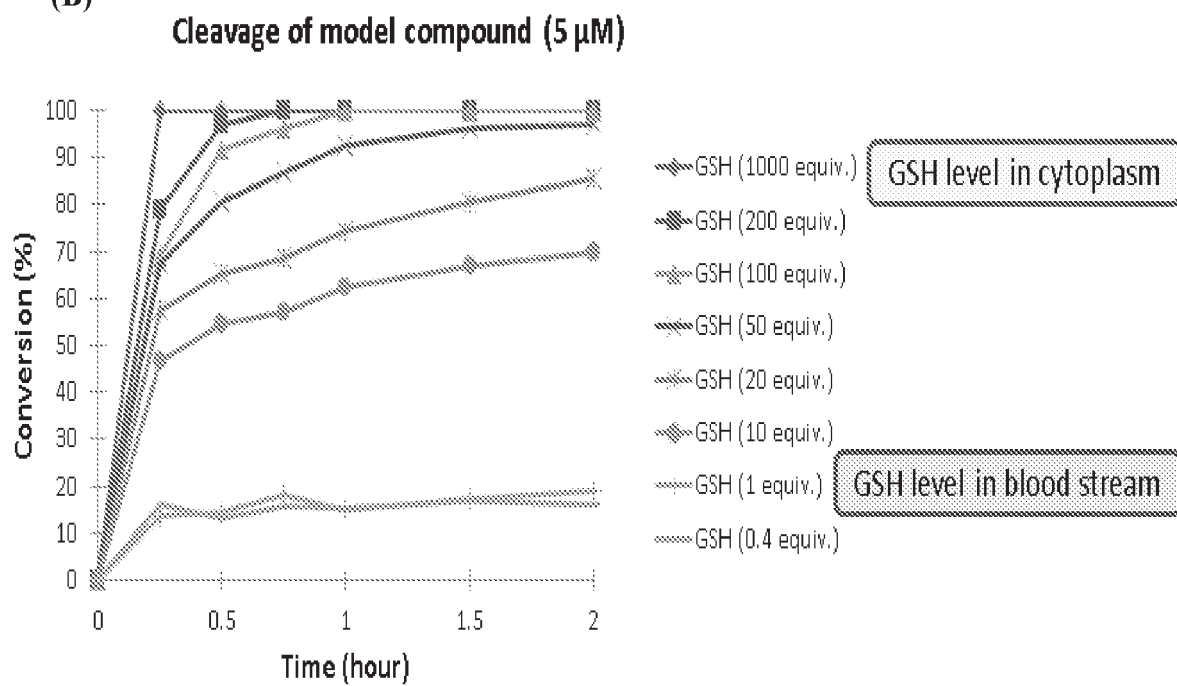


FIG. 12

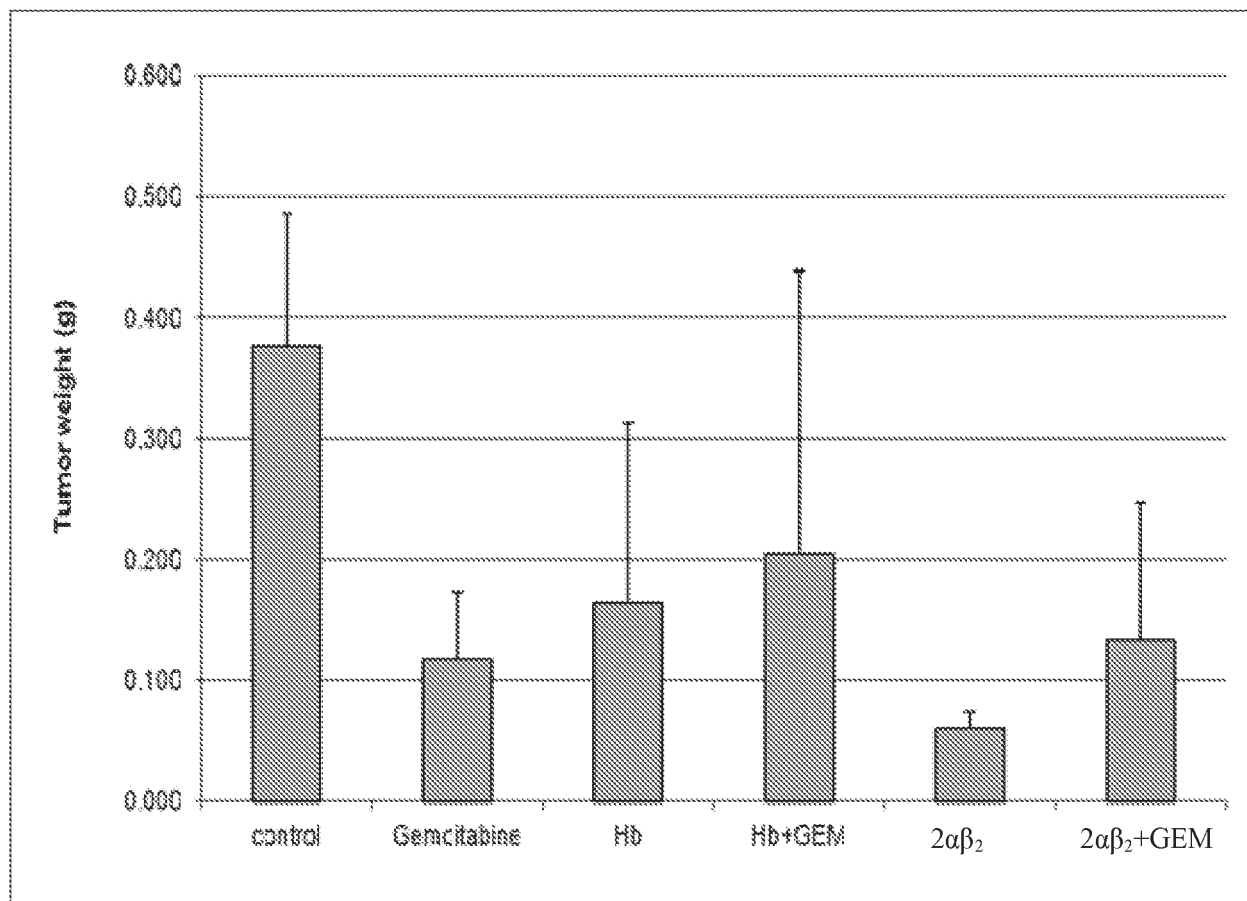


FIG. 13

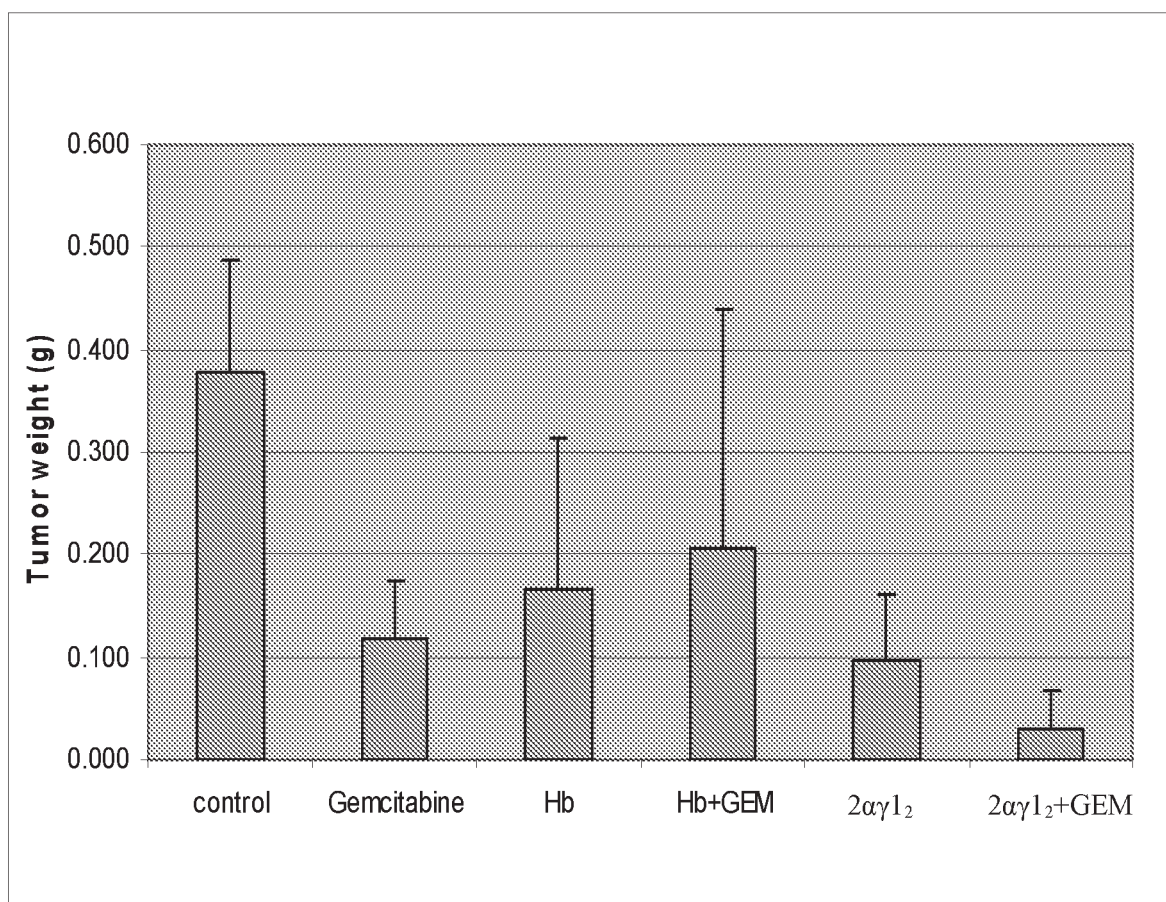


FIG. 14