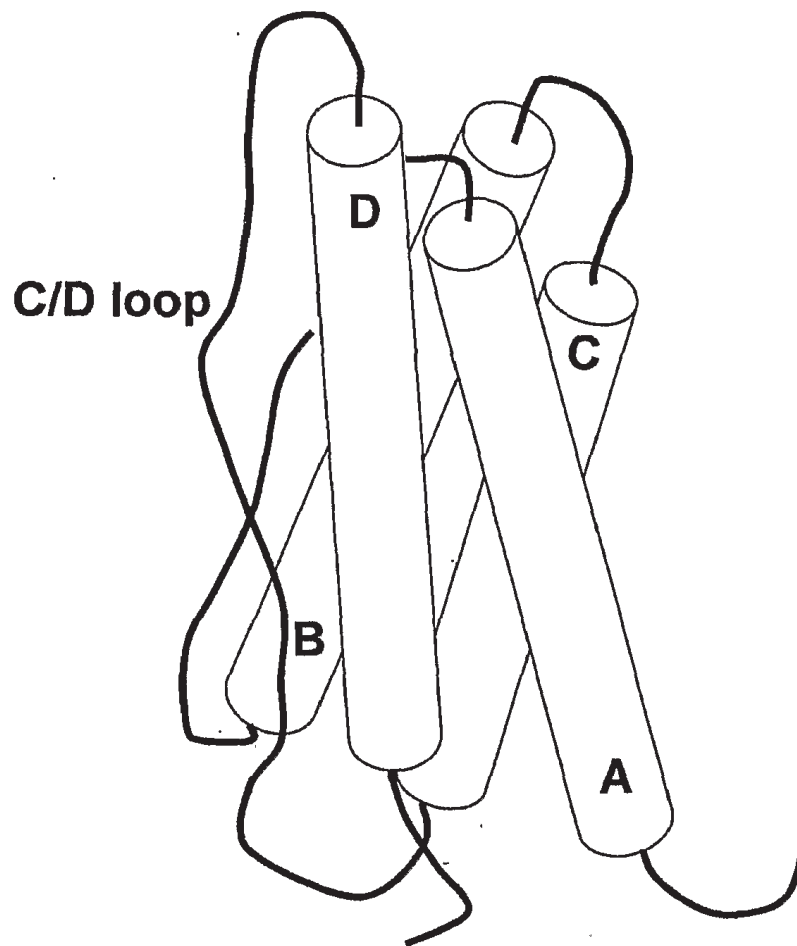
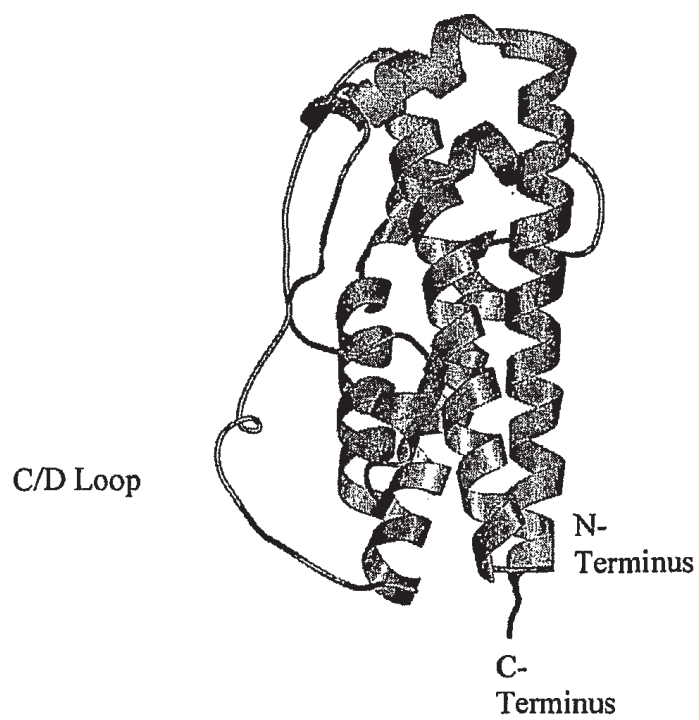


Figure 1



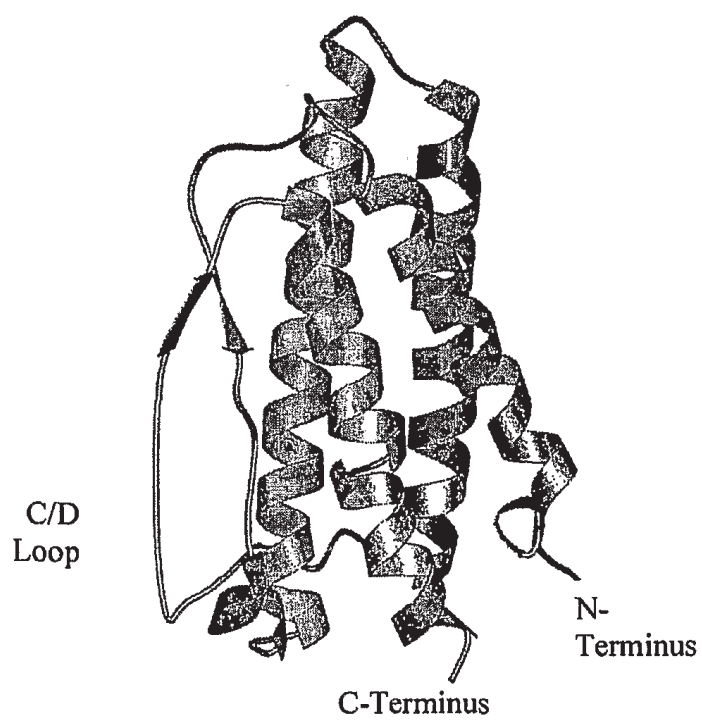
A Four Helical Bundle Protein

Figure 2



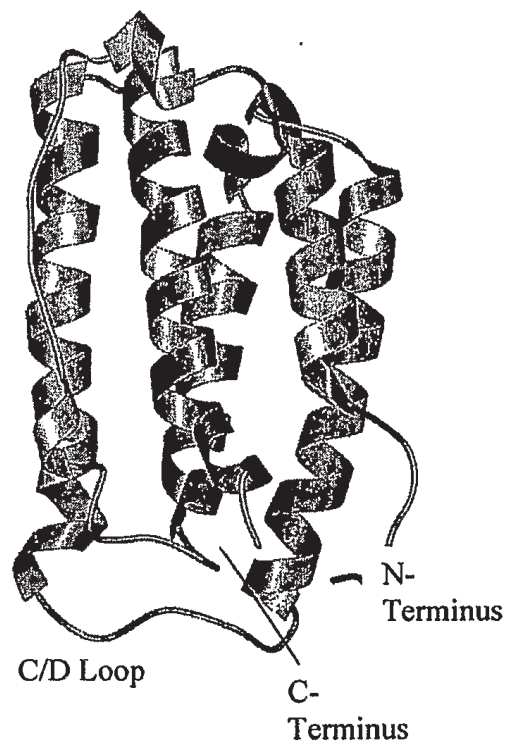
hGH

Figure 3



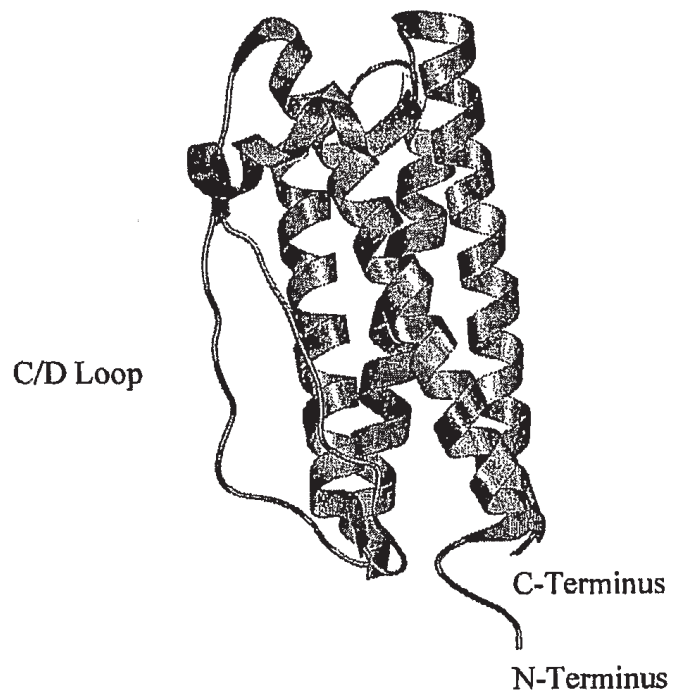
EPO

Figure 4



IFN α -2

Figure 5



G-CSF

Figure 6

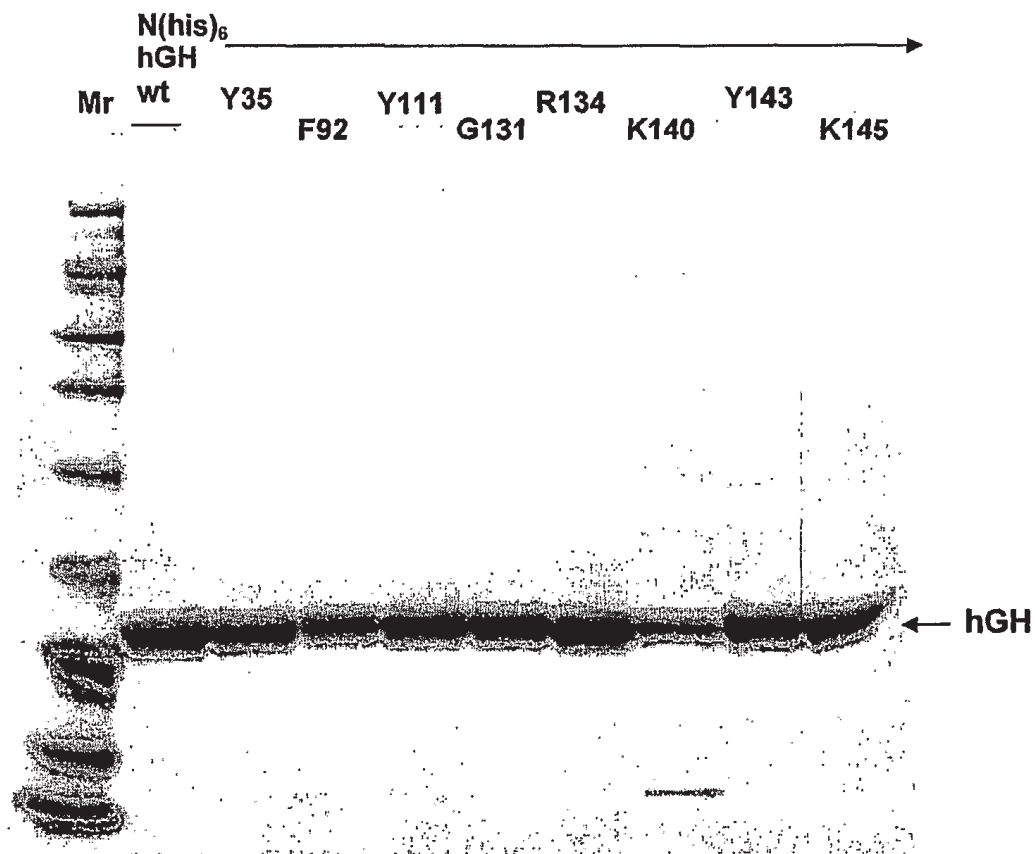


Figure 7, Panel A:

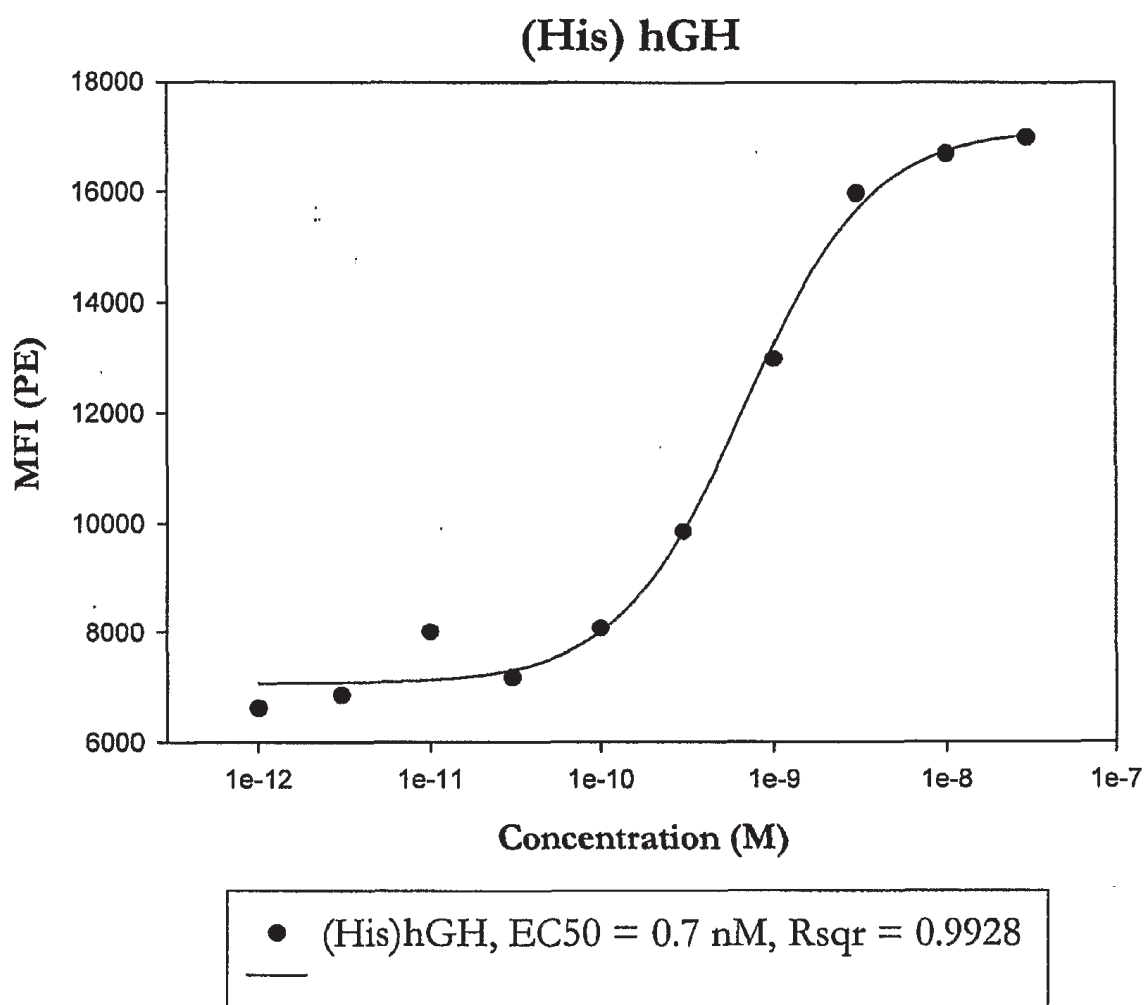


Figure 7, Panel B:

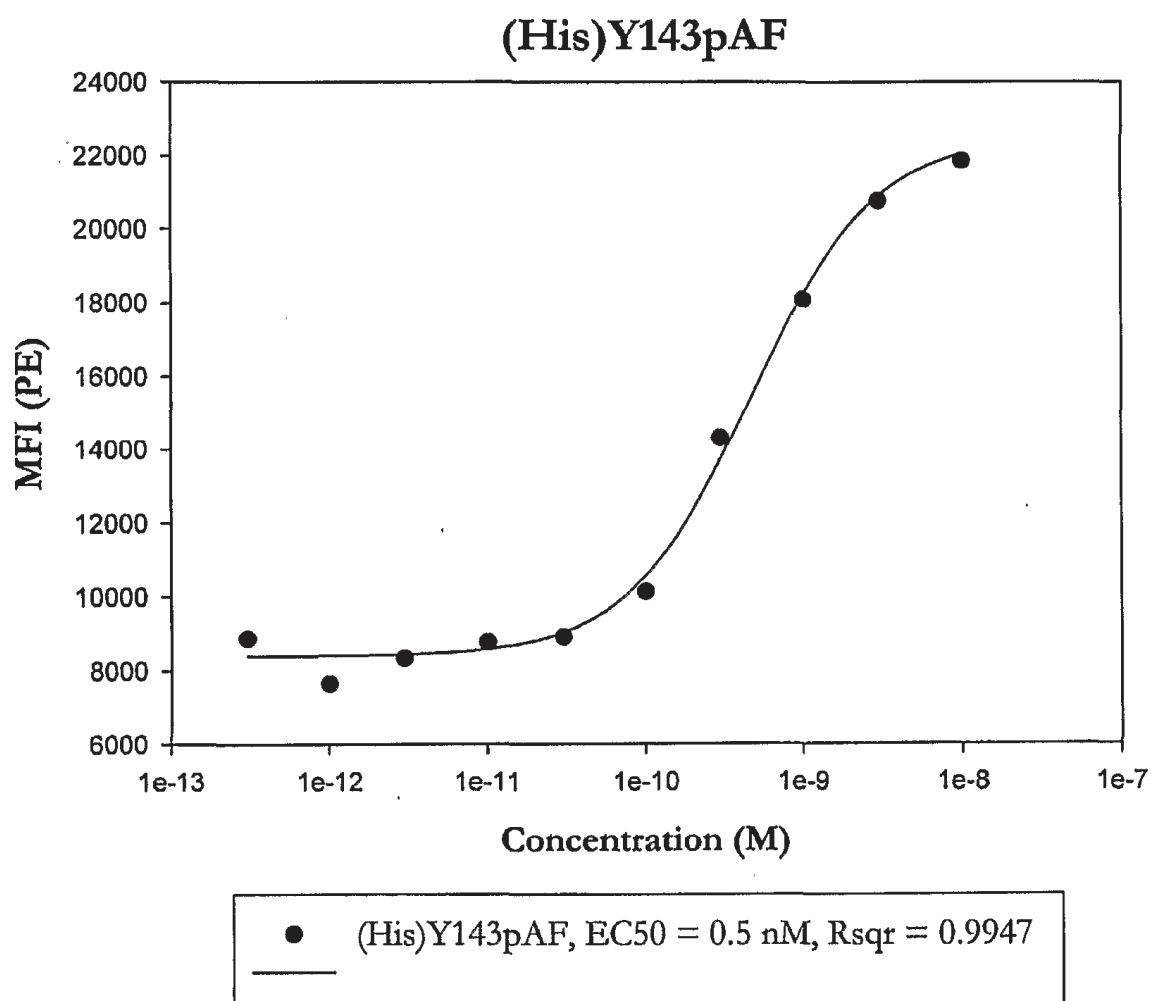


Figure 8

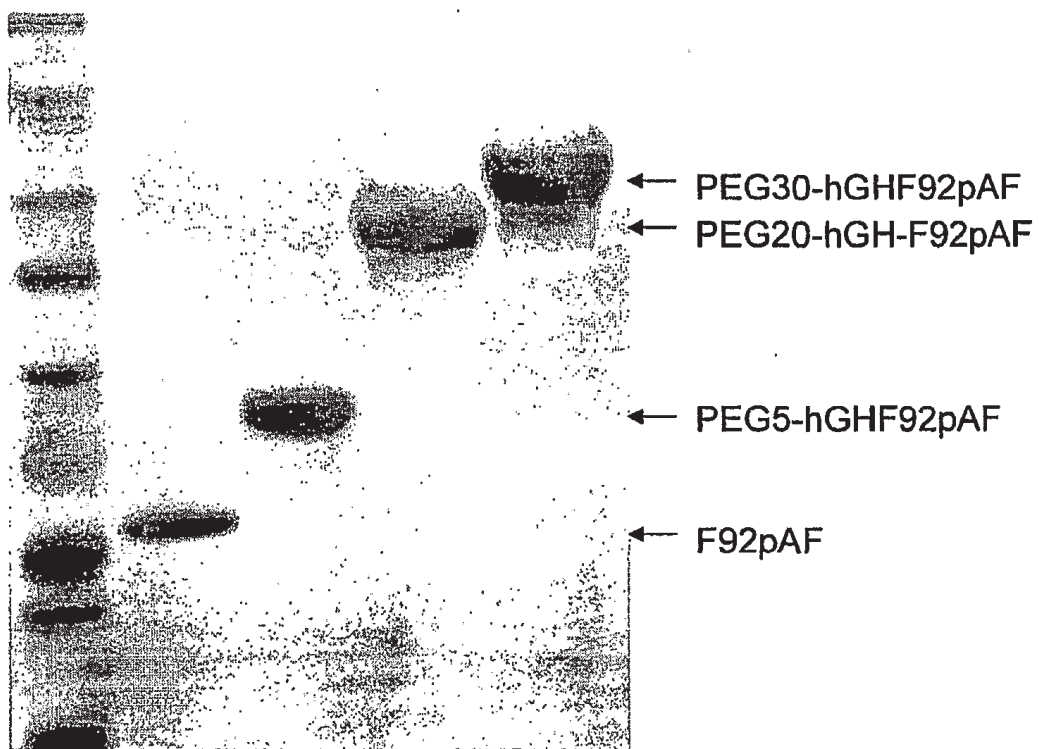
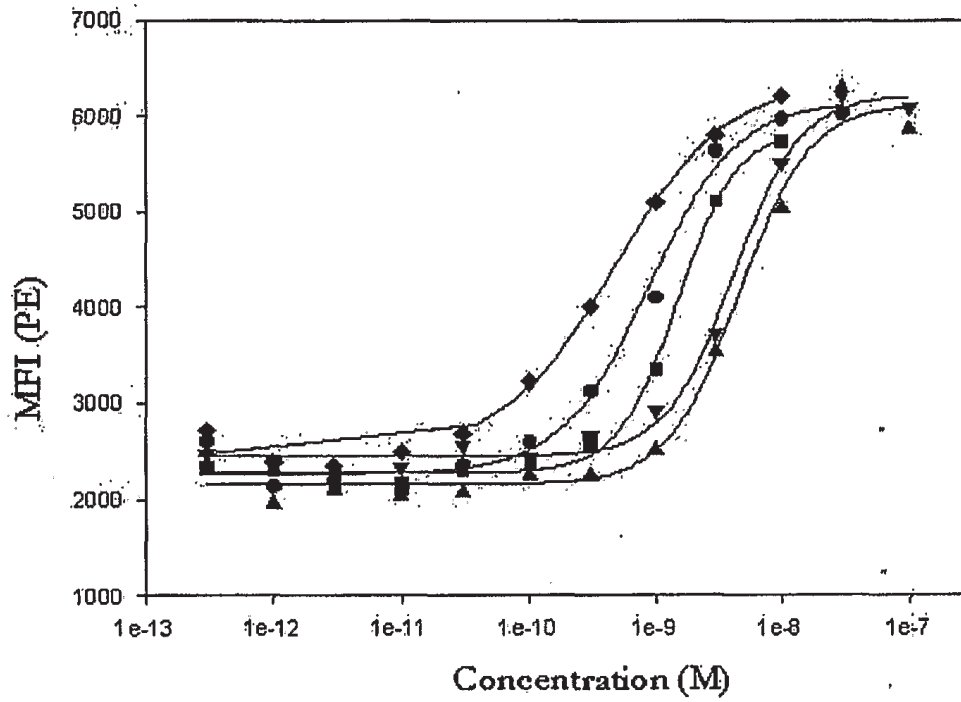


Figure 9



- (His)F92pAF, EC50 = 0.9 nM
- (His)F92pAF-5K, EC50 = 1.5 nM
- ▲ (His)F92pAF-20K, EC50 = 4.6 nM
- ▼ (His)F92-pAF-30K, EC50 = 4.1 nM
- ◆ (His)hGH, EC50 = 0.5 nM

Figure 10, Panel A:

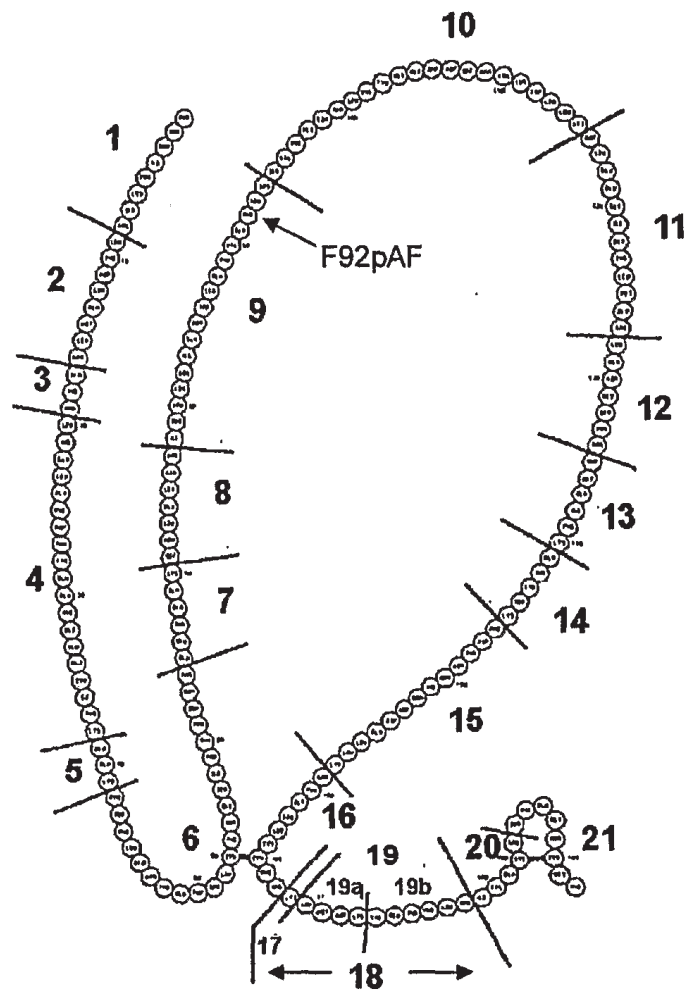
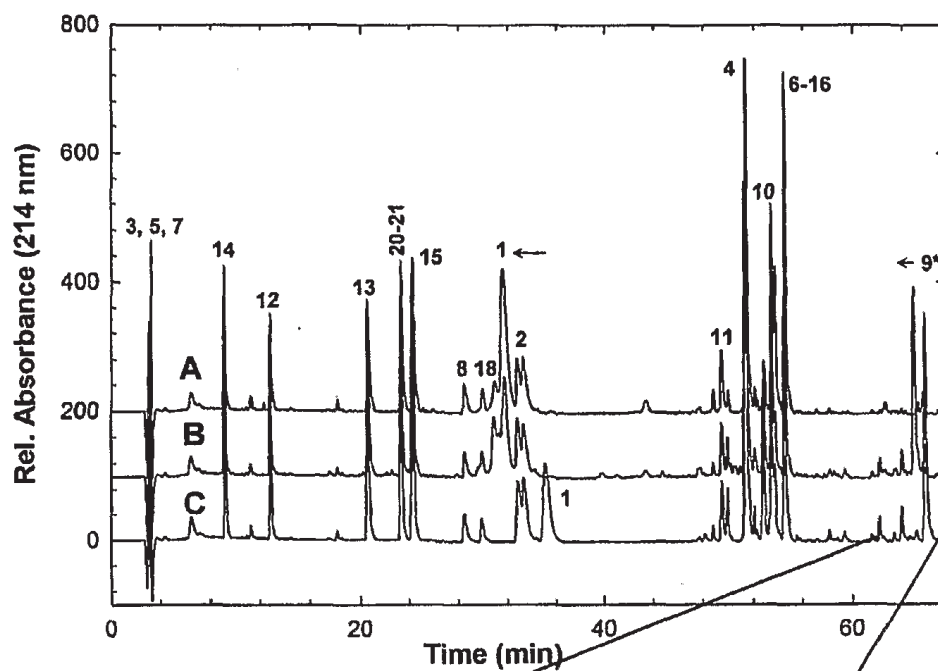


Figure 10, cont.

Panel B:



Panel C:

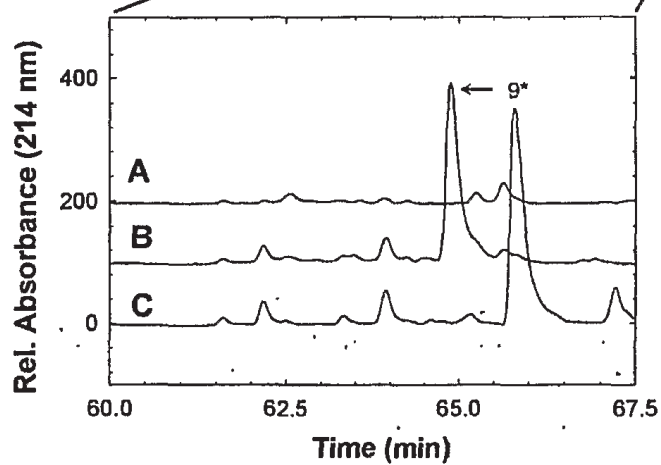
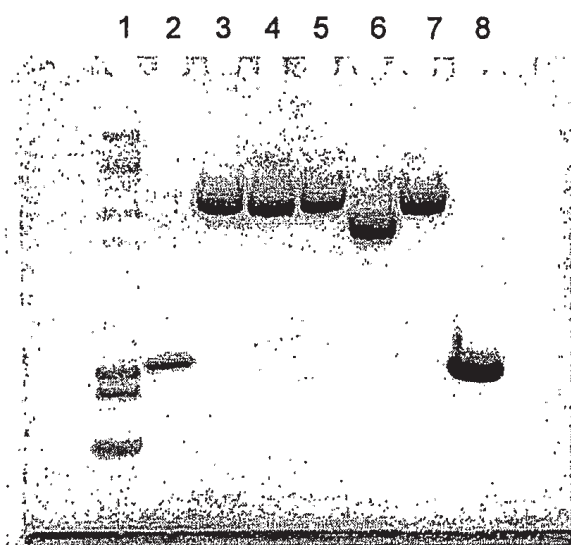


Figure 11

Panel A:



Panel B:

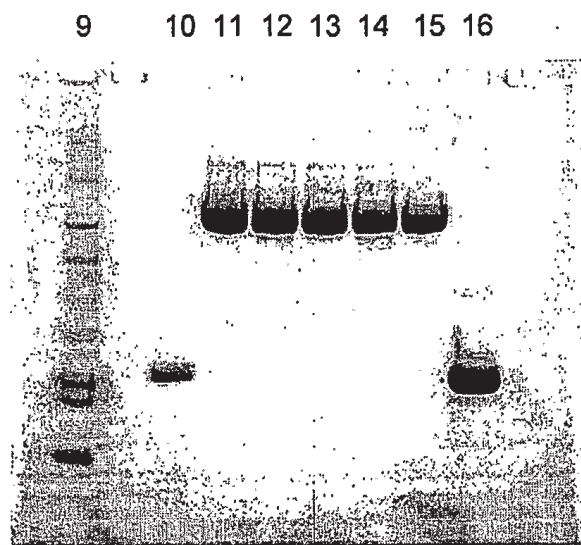


Figure 12
(His)F92pAF

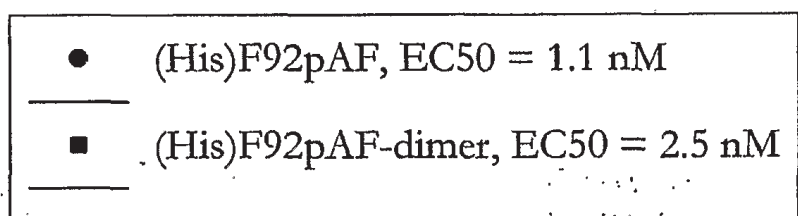
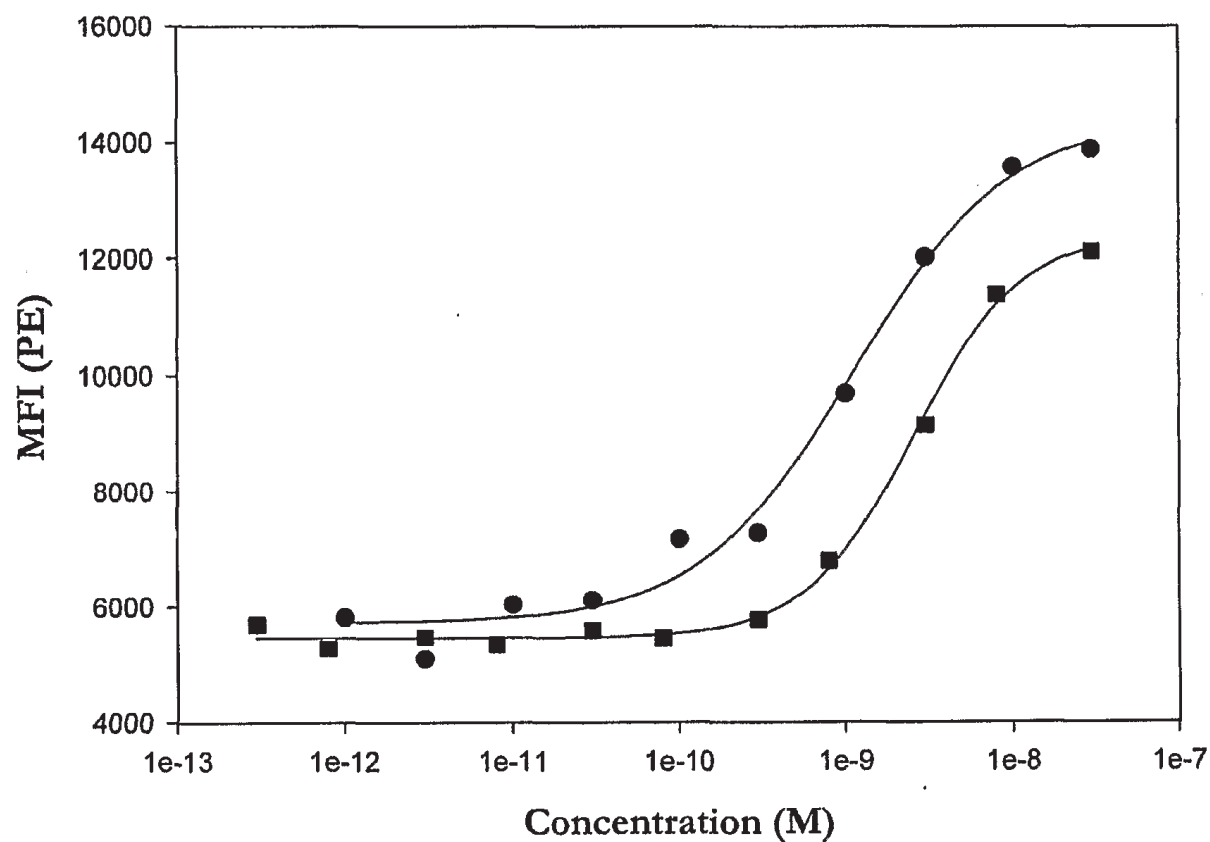


Figure 13, Panel A:

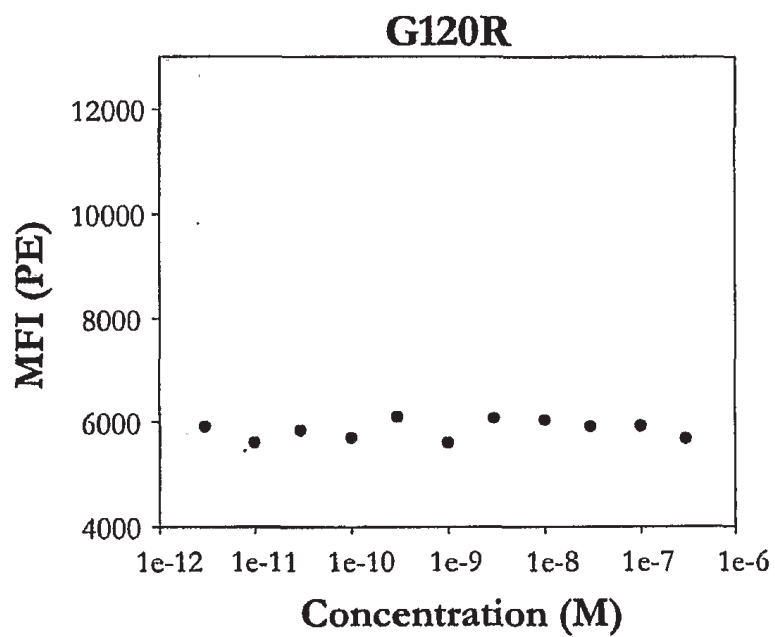


Figure 13, Panel B:

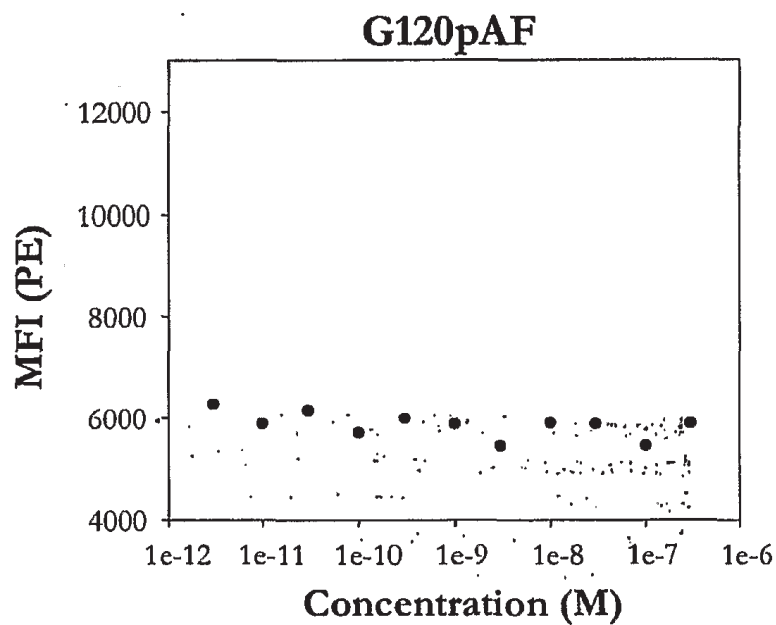


Figure 14

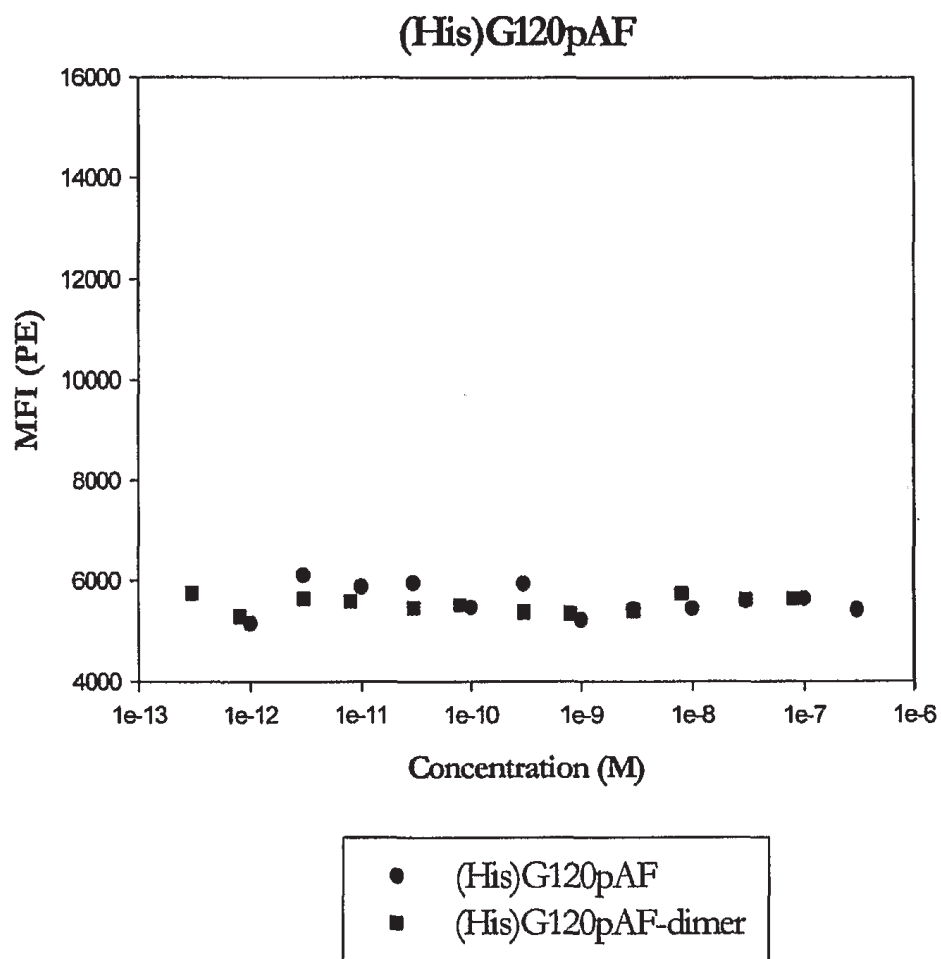


Figure 15

Study # GH-R-001

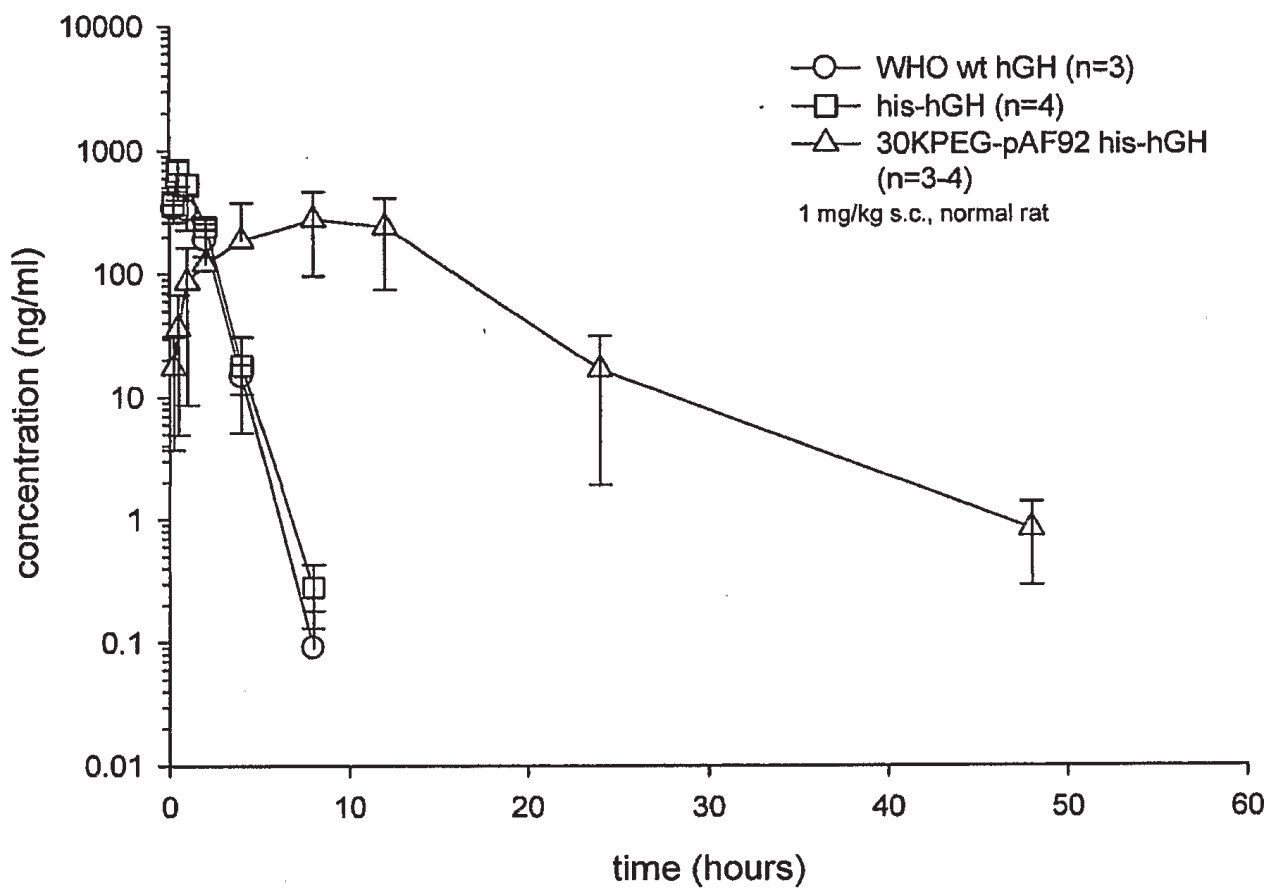


Figure 16

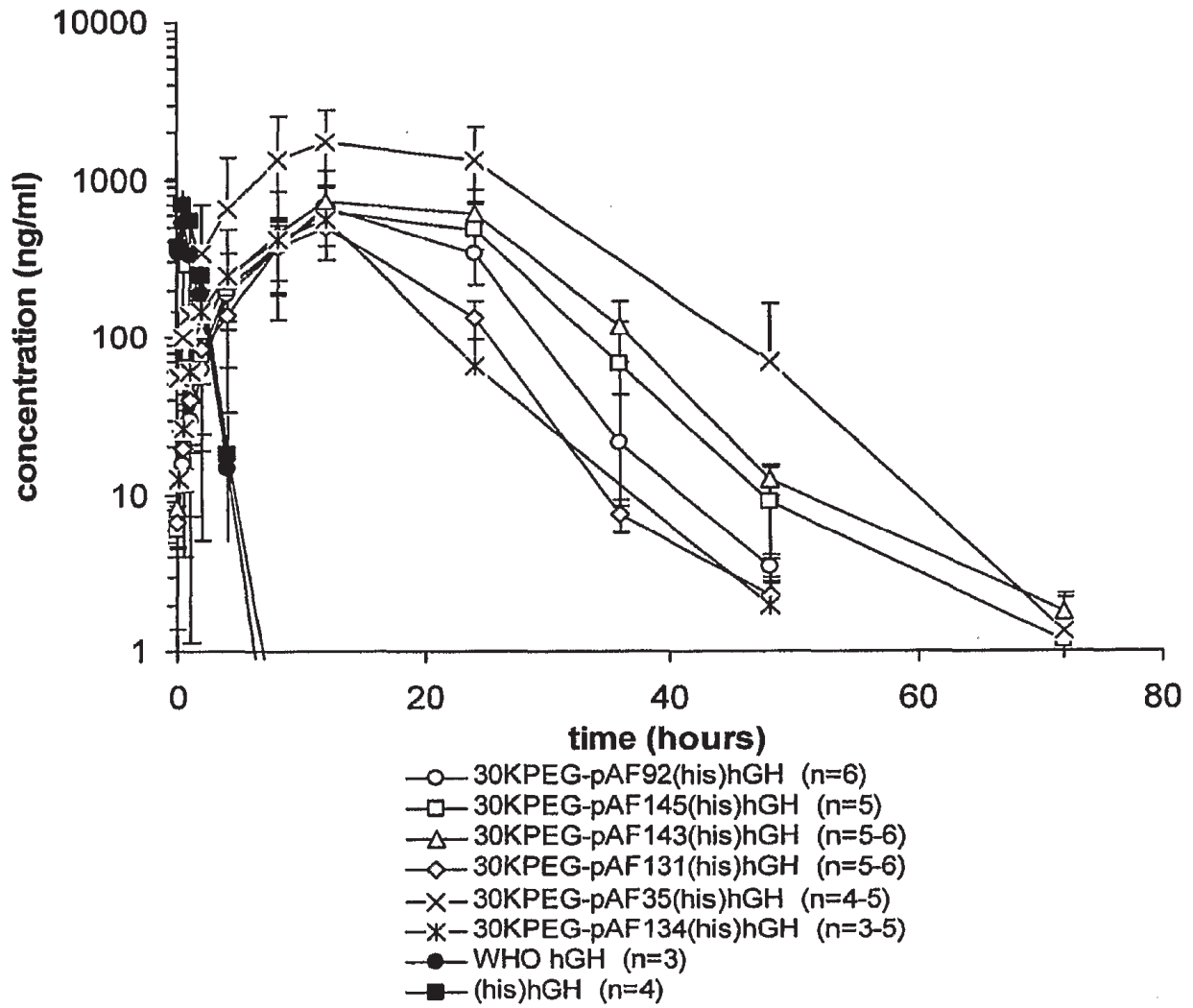


Figure 17

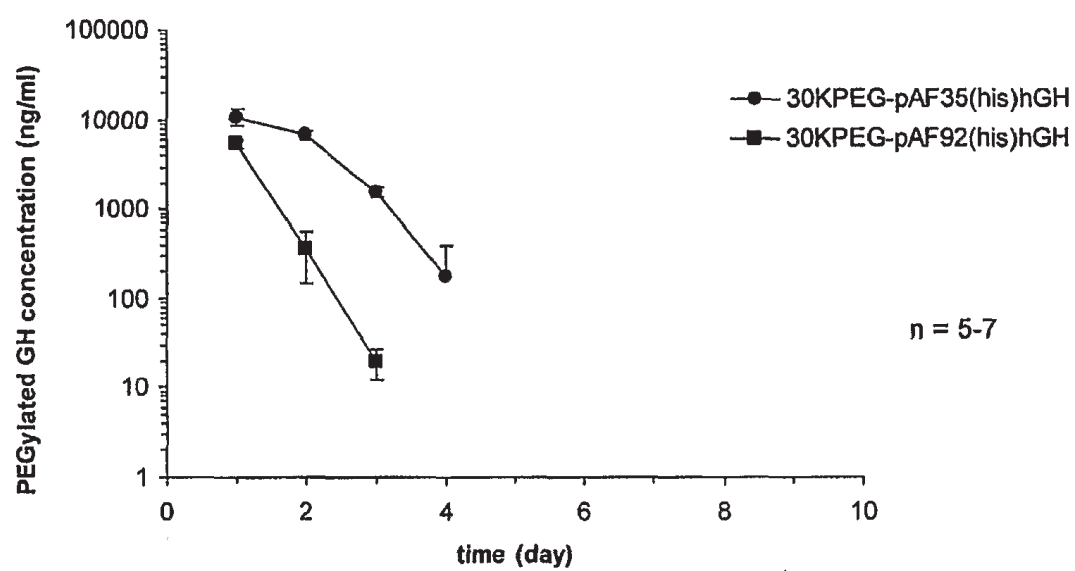


Figure 18, Panel A

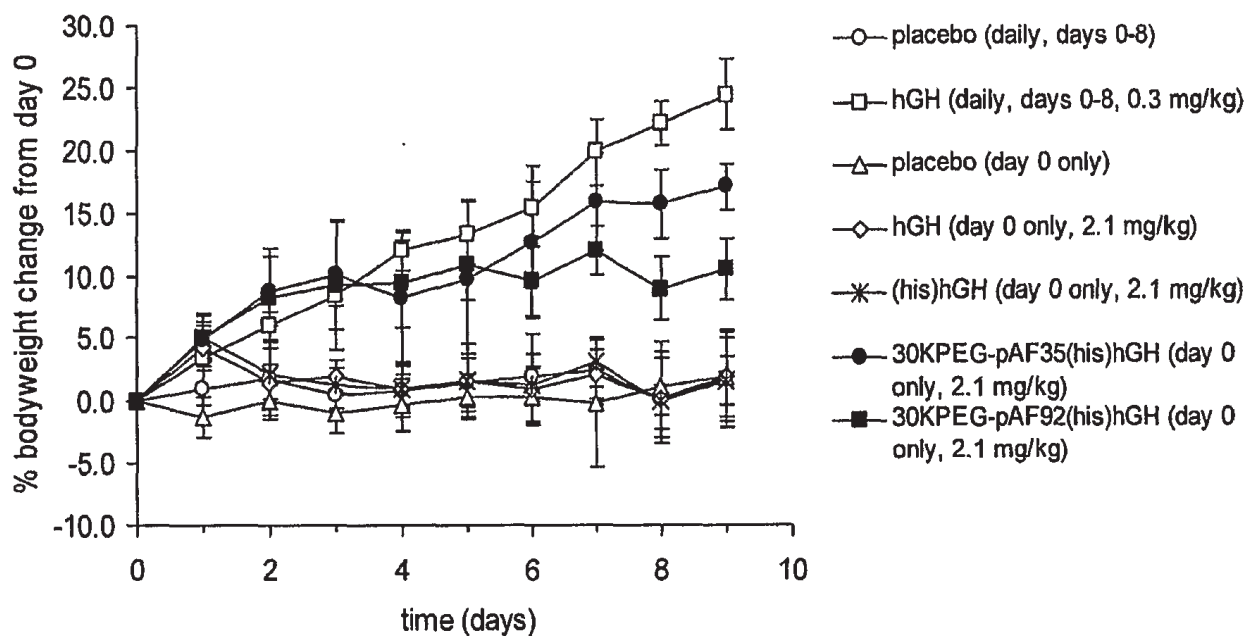


Figure 18, Panel B

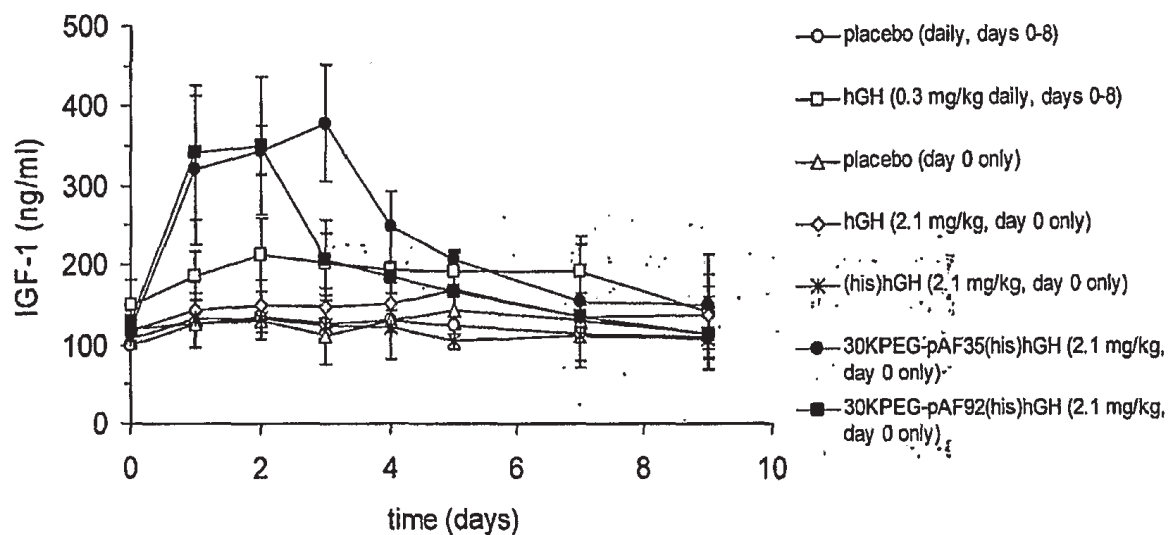


Figure 18, Panel C

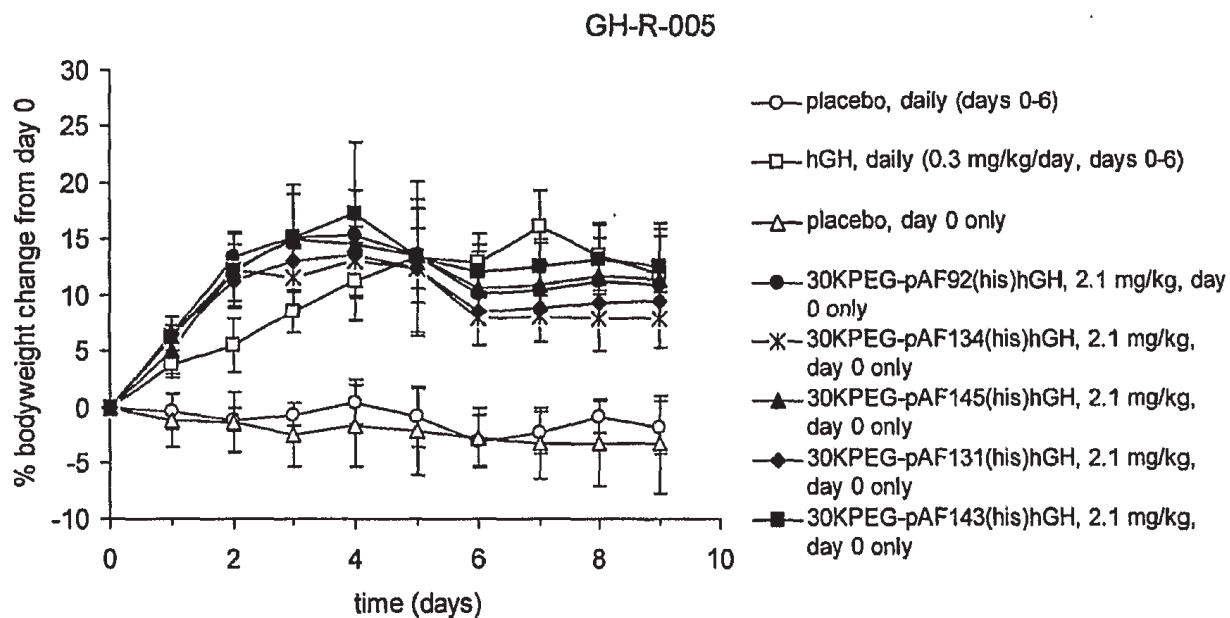


Figure 18, Panel D

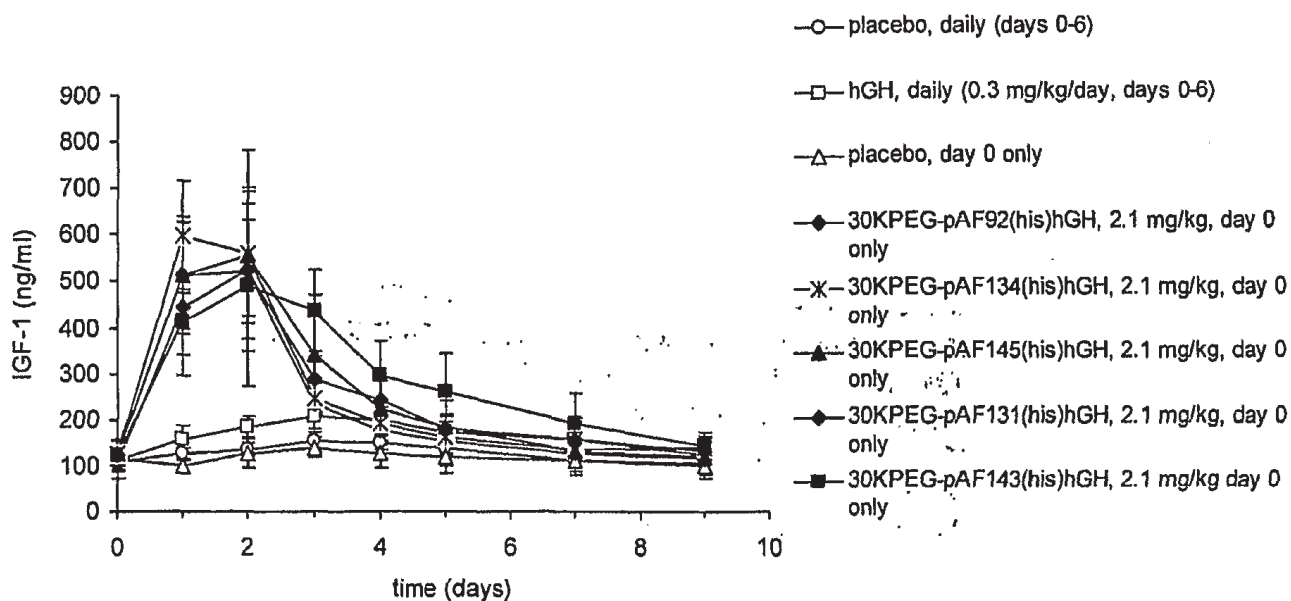


Figure 18, Panel E

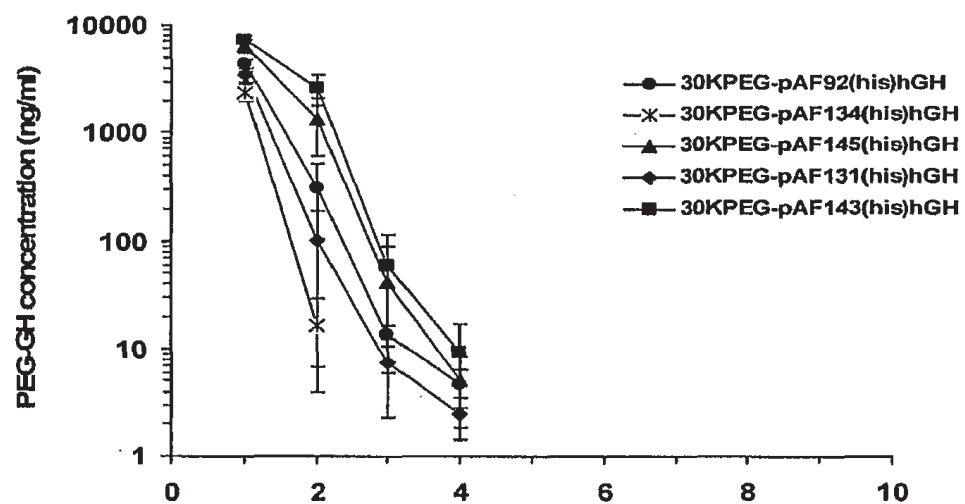
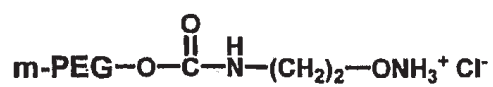


Figure 19



**linear, 30 kDa monomethoxy-poly(ethylene glycol)-2-aminoxy ethylamine carbamate
hydrochloride**

Figure 20

Synthesis of carbamate-linked oxyamino-derivatized PEG

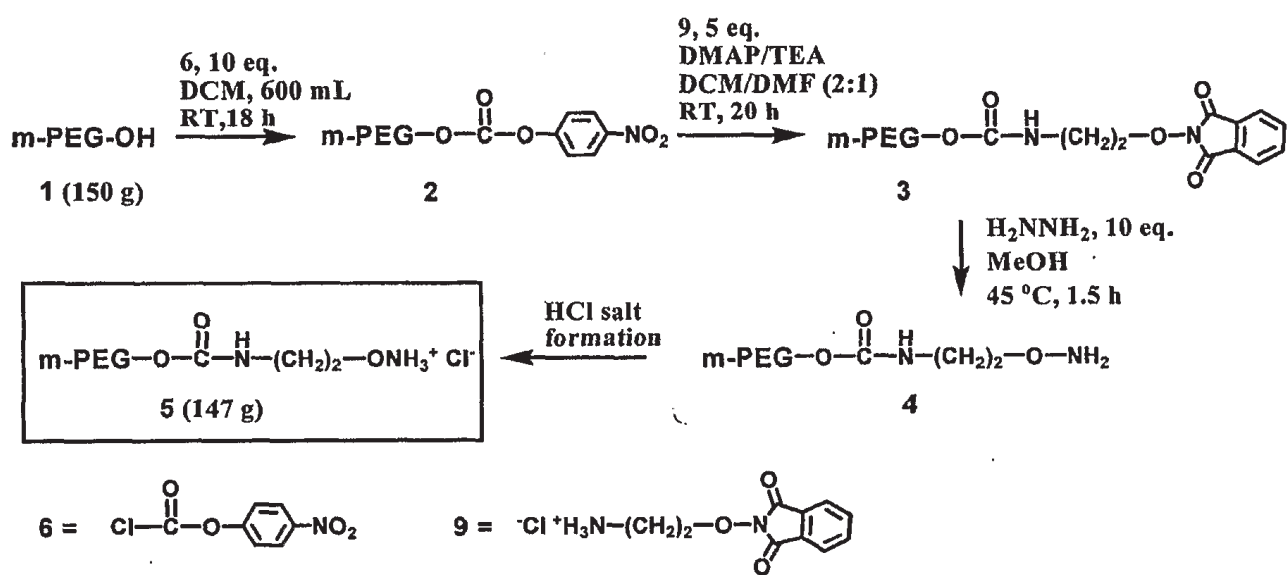


Figure 21

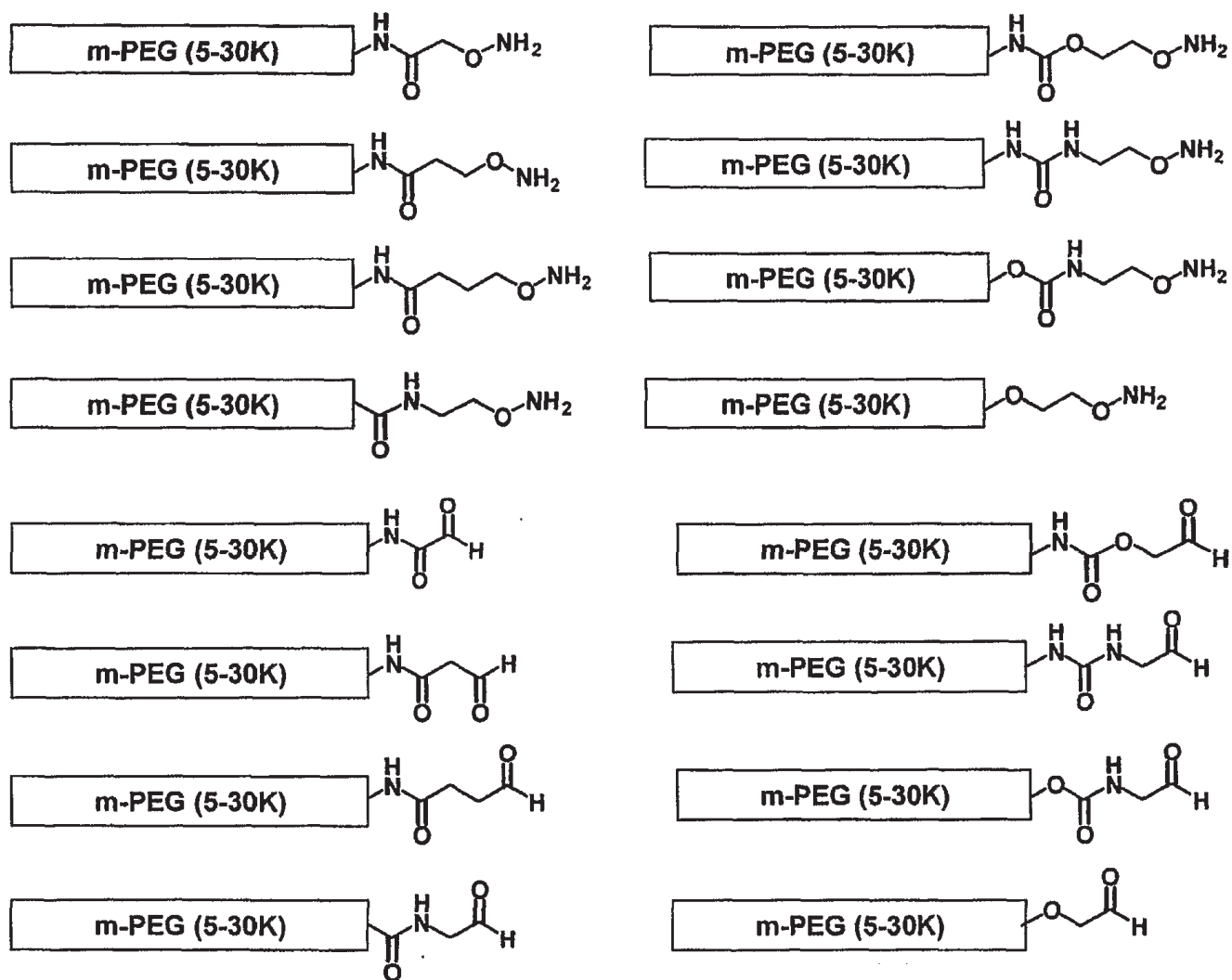
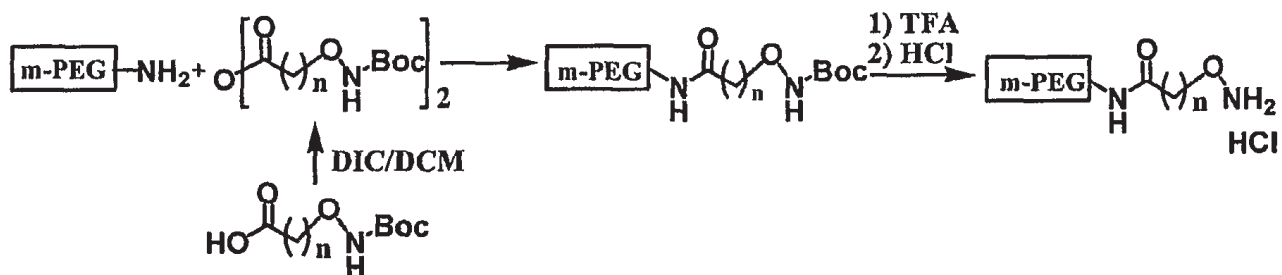
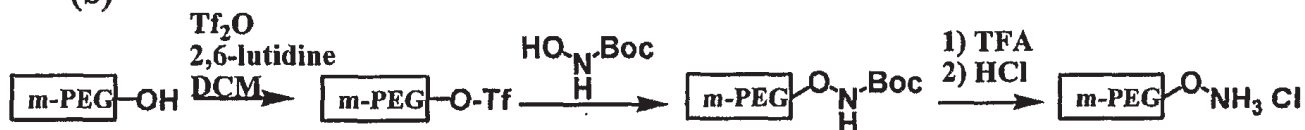


Figure 22

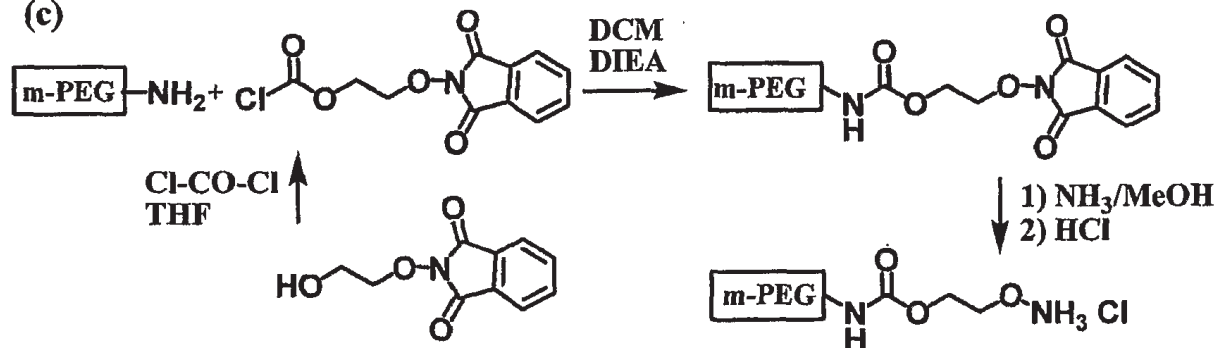
(a)



(b)



(c)



(d)

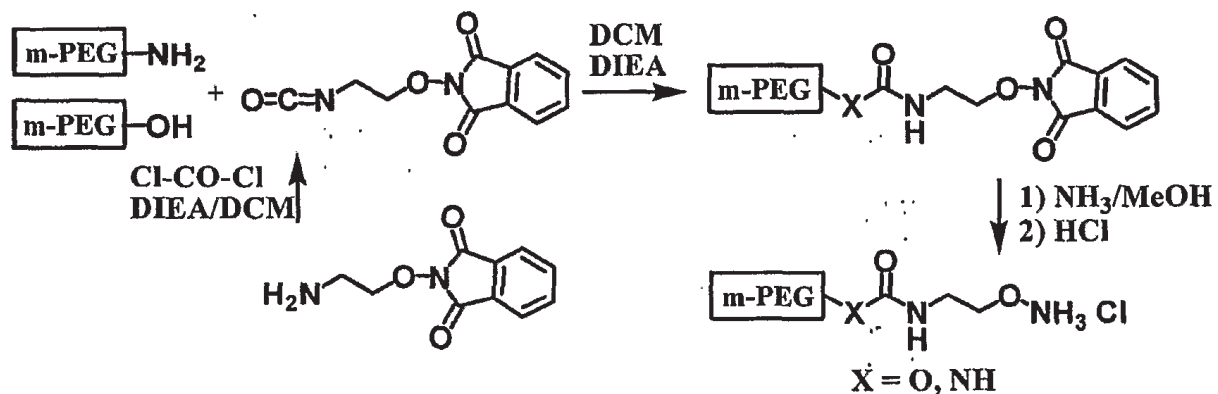


Figure 23

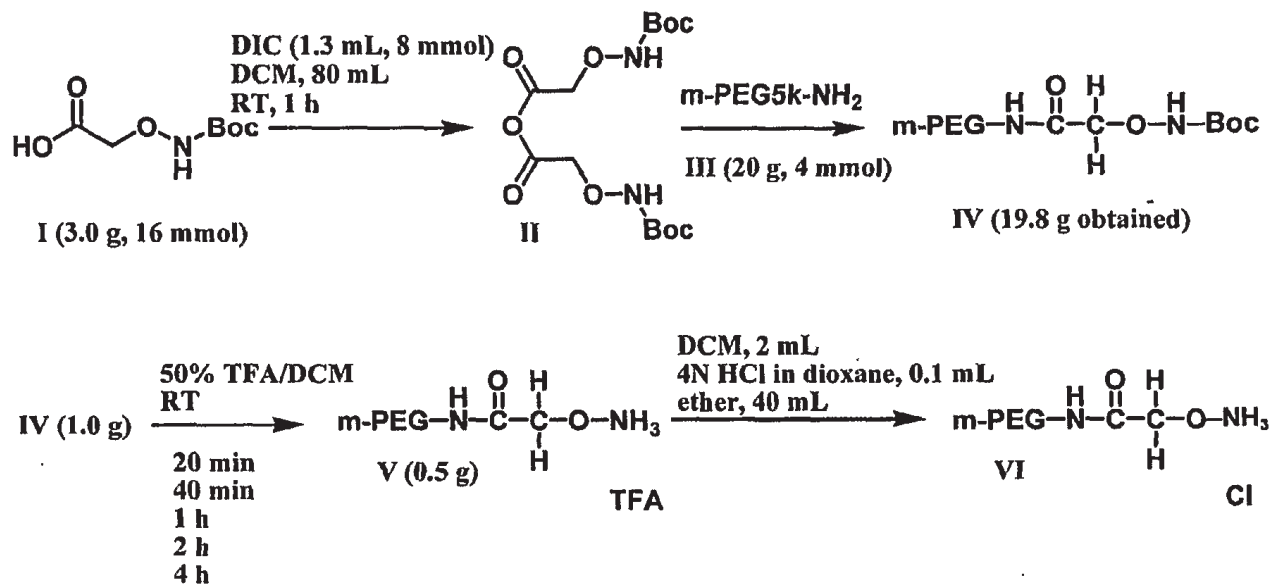


Figure 24

Route A:

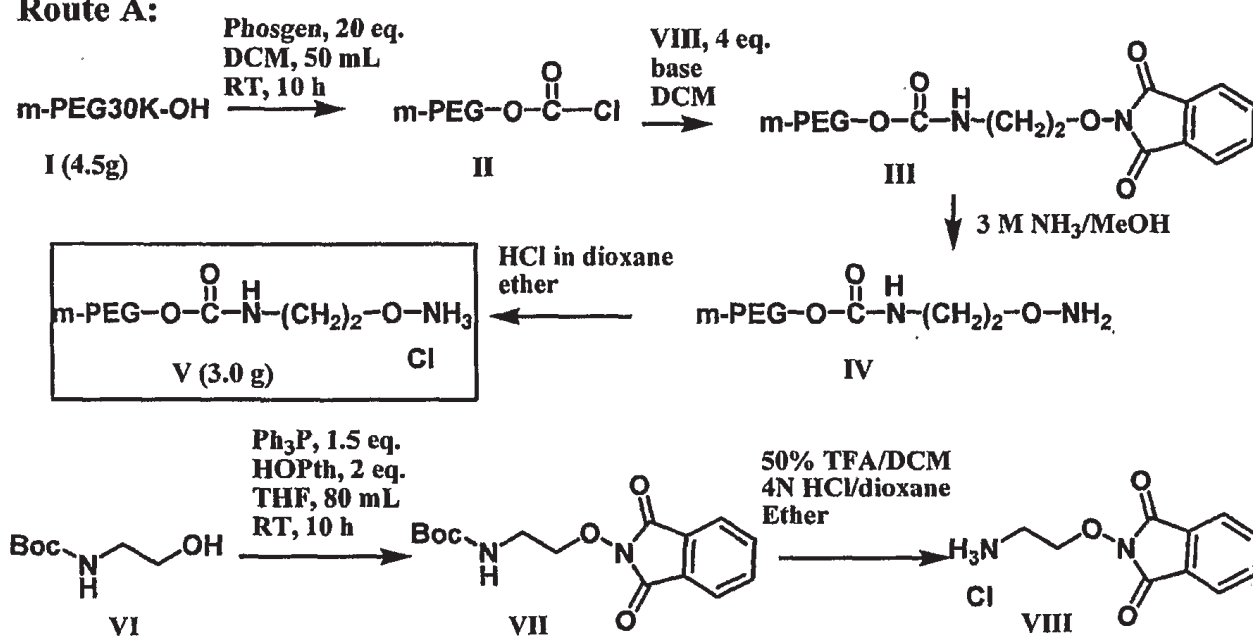
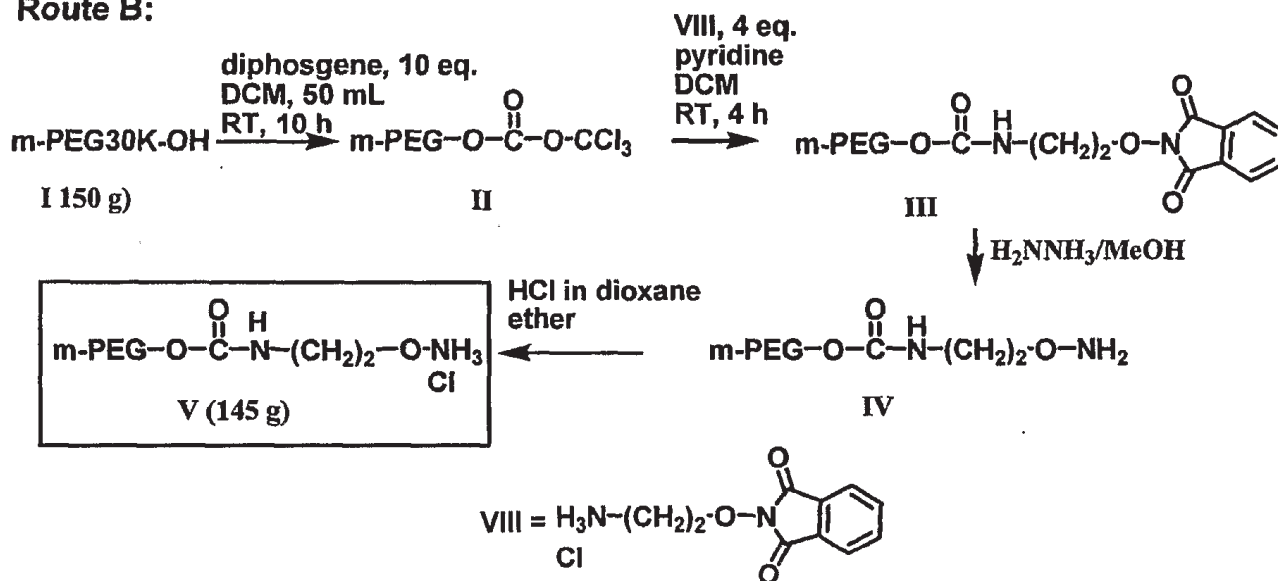


Figure 25

Route B:



Route C:

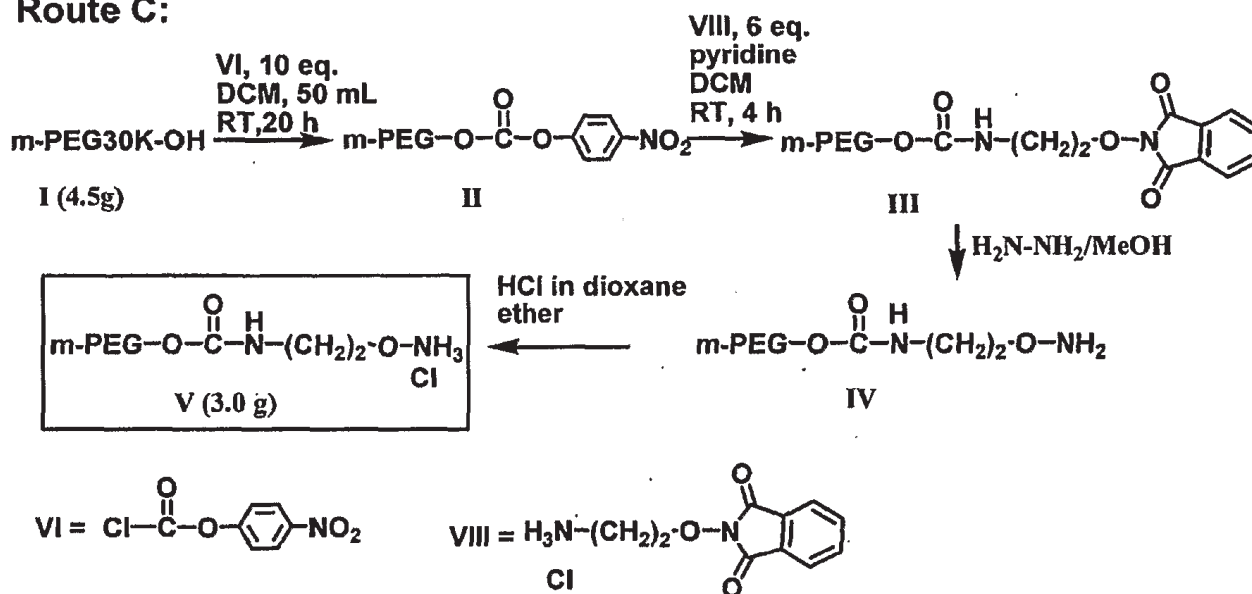


Figure 26

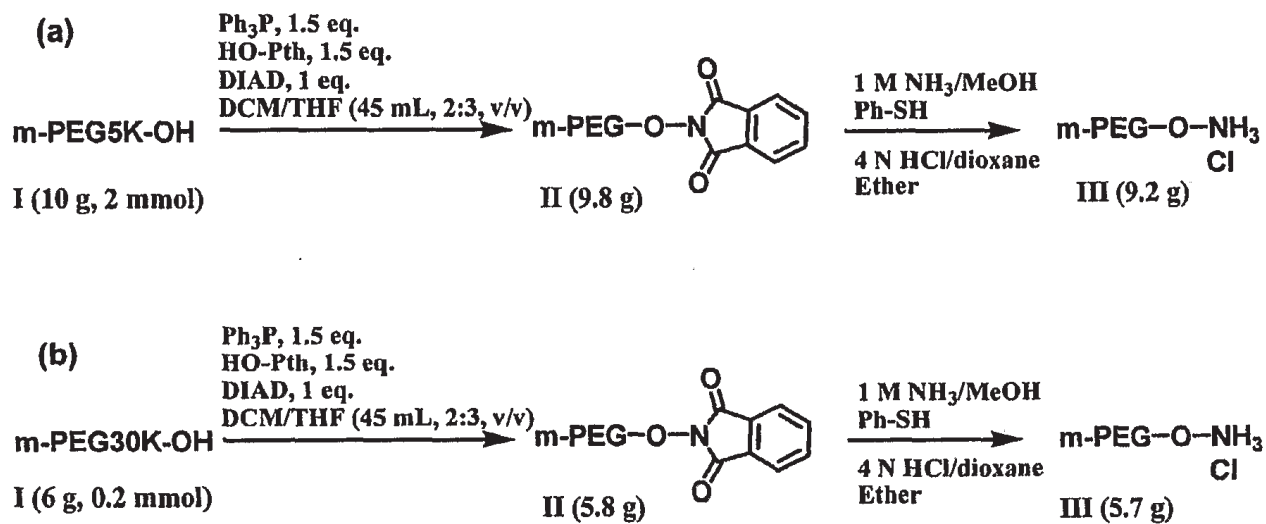
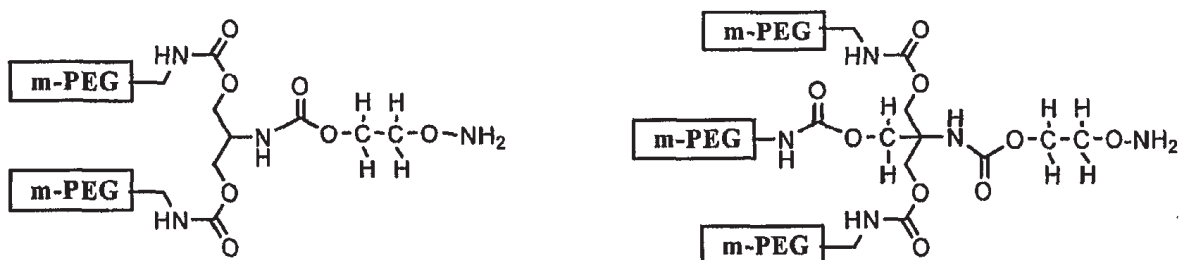


Figure 27

Branched PEG:



Conjugation:

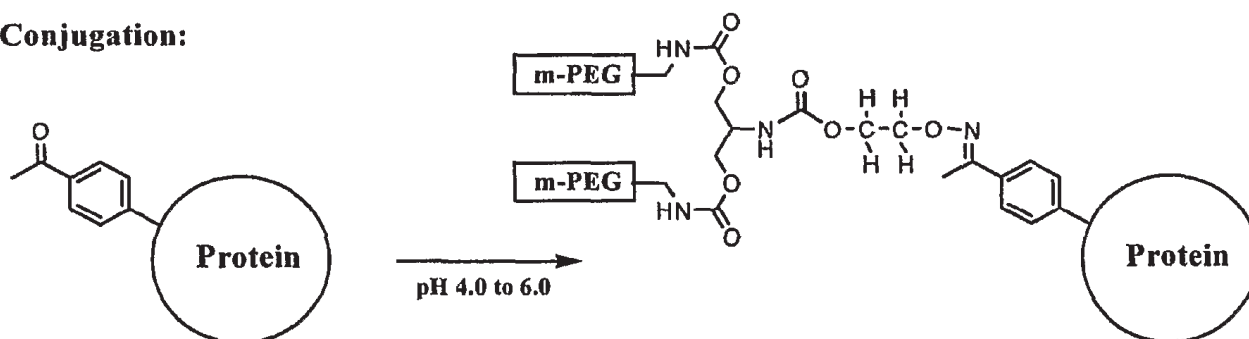
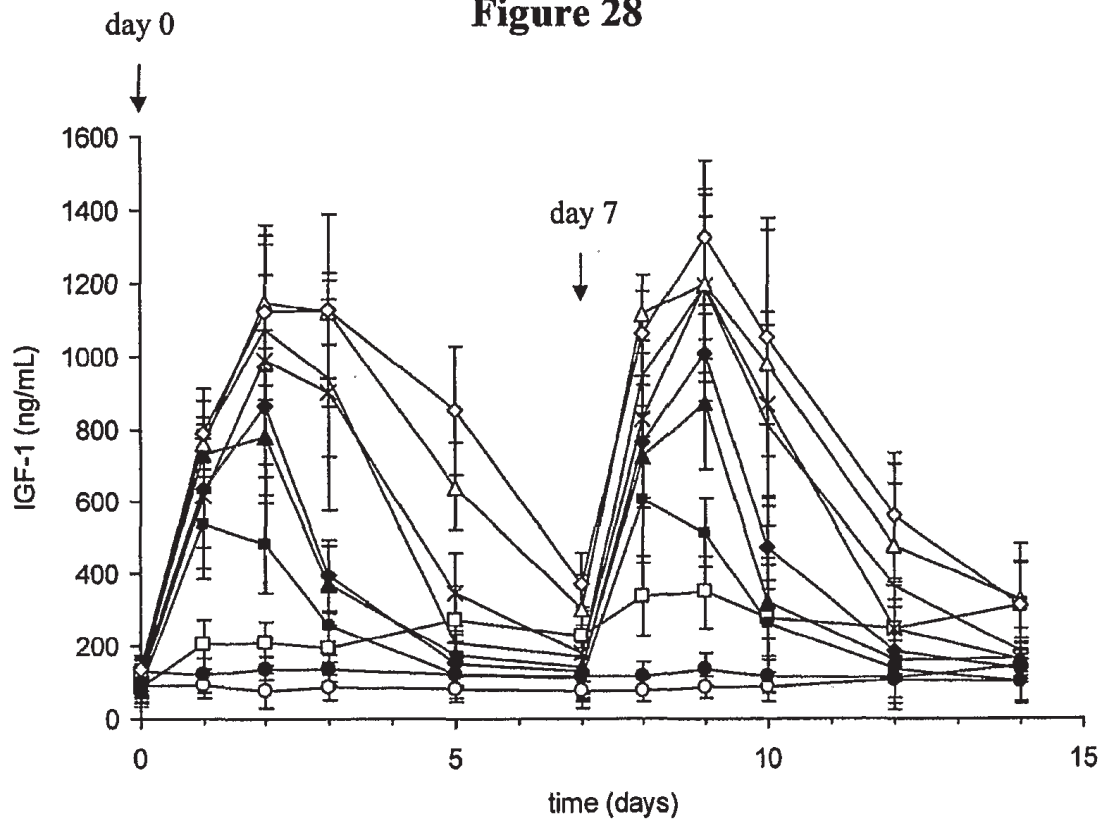


Figure 28

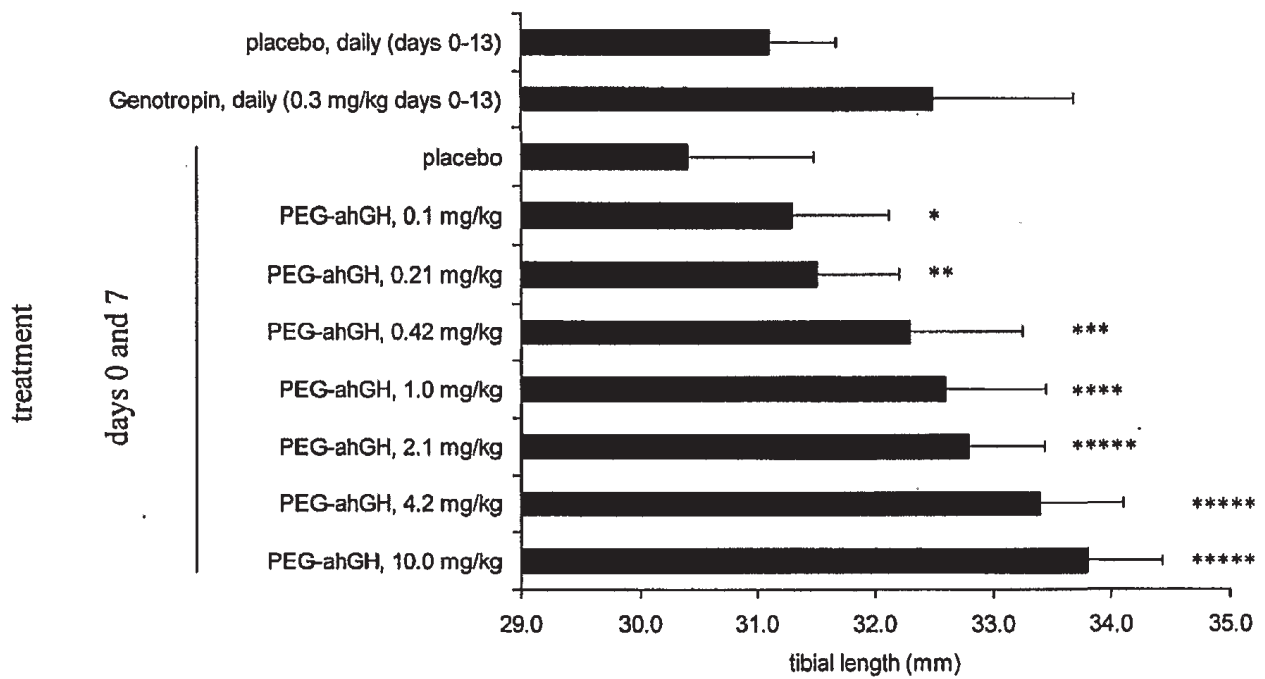


- placebo, daily (days 0-13)
- Genotropin, daily (0.3 mg/kg, days 0-13)
- placebo, days 0,7
- PEG-ahGH, 0.10 mg/kg days 0,7
- ▲— PEG-ahGH, 0.21 mg/kg days 0,7
- ◆— PEG-ahGH, 0.42 mg/kg days 0,7
- +— PEG-ahGH, 1.0 mg/kg days 0,7
- *— PEG-ahGH, 2.1 mg/kg days 0,7
- △— PEG-ahGH, 4.2 mg/kg days 0,7
- ◇— PEG-ahGH, 10 mg/kg days 0,7

n = 10

Bars indicate standard deviation

Figure 29



n=10

Bars indicate standard deviation

Statistically different from day 0,7 placebo control:

* $p < 0.05$, ** $p < 0.015$, *** $p < 0.0006$,

**** $p < 0.00008$, ***** $p < 0.00001$.

Figure 30

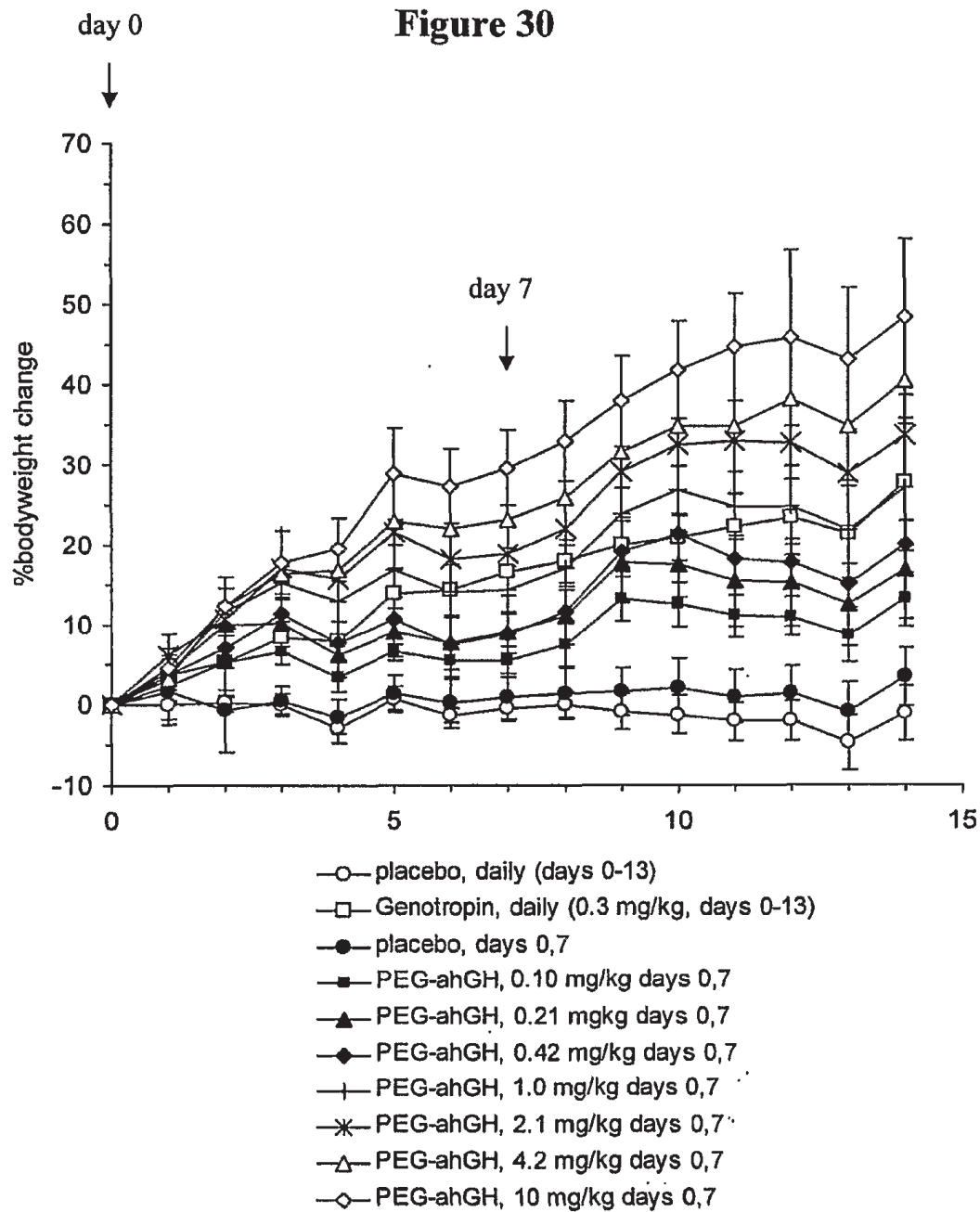


Figure 31

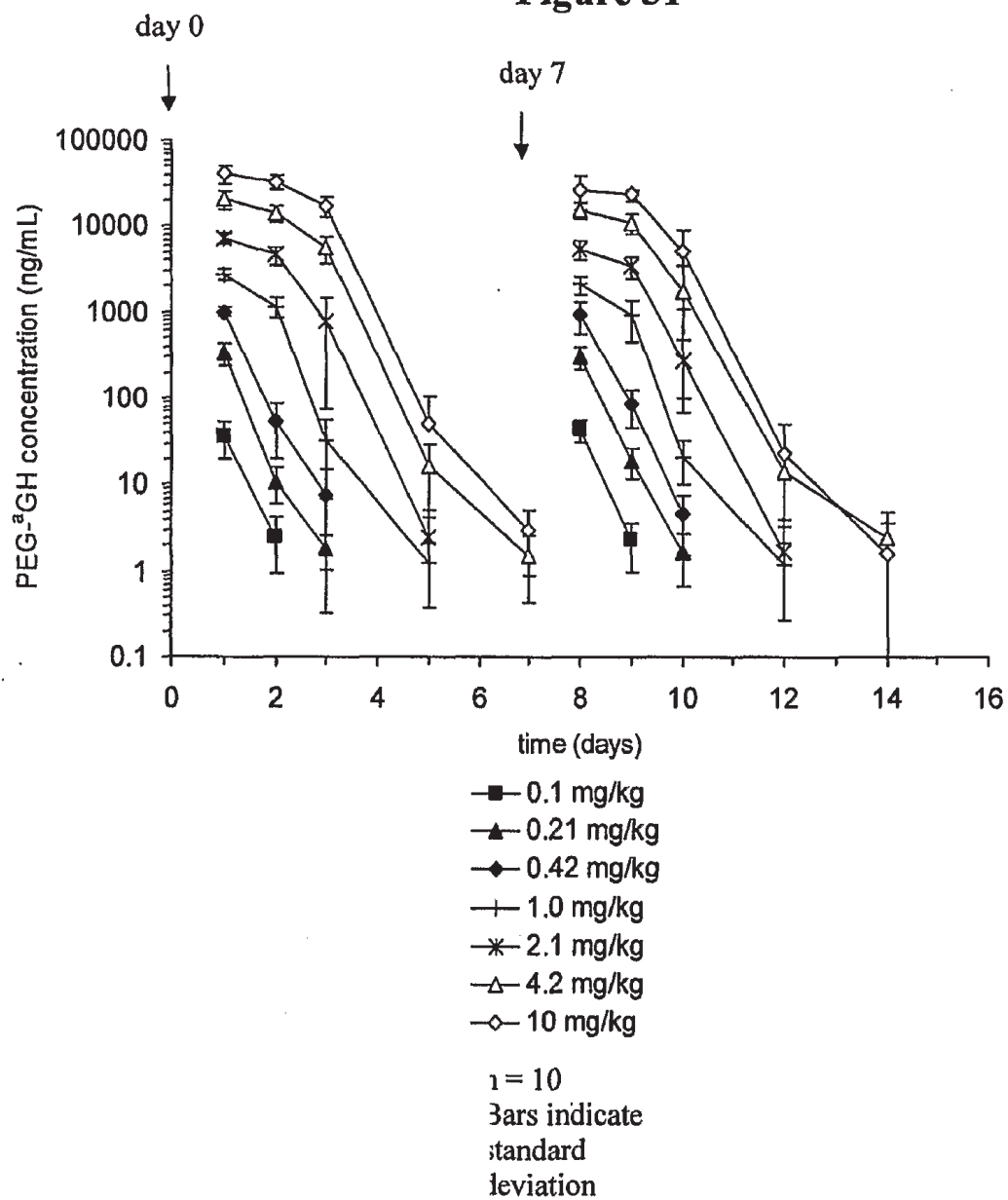


Figure 32

