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[Continued on next page]

(54) Title: GLYCEROL BRANCHED POLYETHYLENE GLYCOL HUMAN GROWTH HORMONE CONJUGATES, PROCESS FOR THEIR PREPARATION, AND METHODS OF USE THEREOF

Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp Asn 12

Ala Met Leu Arg Ala His Arg Leu His Gln Leu Ala 24

Phe Asp Thr Tyr Gln Glu Phe Glu Glu Ala Tyr Ile 36

Pro Lys Glu Gln Lys Tyr Ser Phe Leu Gln Asn Pro 48

Gln Thr Ser Leu Cys Phe Ser Glu Ser Ile Pro Thr 60

Pro Ser Asn Arg Glu Glu Thr Gln Gln Lys Ser Asn 72

Leu Glu Leu Leu Arg Ile Ser Leu Leu Leu Ile Gln 84

Ser Trp Leu Glu Pro Val Gln Ser Leu Arg Ser Val 96

Phe Ala Asn Ser Leu Val Tyr Gly Ala Ser Asp Ser 108

Asn Val Tyr Asp Leu Leu Lys Asp Leu Glu Glu Gly 120

Ile Gln Thr Leu Met Gly Arg Leu Glu Asp Gly Ser 132

Pro Arg Thr Gly Gln Ile Phe Lys Gln Thr Tyr Ser 144

Lys Phe Asp Thr Asn Ser His Asn Asp Asp Ala Leu 156

Leu Lys Asn Tyr Gly Leu Leu Tyr Cys Phe Arg Lys 168

Asp Met Asp Lys Val Glu Thr Phe Leu Arg Ile Val 180

Gln Cys Arg Ser Val Glu Gly Ser Cys Gly Phe 191

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(57) Abstract: The present invention relates to PEGylation of human Growth Hormone (hGH) using a glycerol branched PEG. The present invention also relates to processes for the PEGylation of hGH. In addition, the present invention relates to pharmaceutical compositions comprising the PEGylated hGH. A further embodiment is the use of the PEGylated hGH for the treatment of growth and development disorders.

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