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[Continued on next page]

(54) Title: COMPOSITIONS AND METHODS FOR THE PREPARATION OF HUMAN GROWTH HORMONE GLYCOSYLATION MUTANTS

GH-N (pituitary)

fpti plsrldnam lrahrhqla fdtyqefeea yipkeqkysf lqnpqtslcf sesiptpsnr
eetqqksnle llrisllliq swlepqvqlr svfanslvvg asdsnvdydl kdleegiqlt mgrledgspr
tgqifkqtys kfdtnshndd allknygllly cfrkdmkve tflrivqcrs vegscgf

↑
Asn ↔ N-linked
Glycan

GH-V (placenta)

fpti plsrldnam lrarrlyqla ydtyqefeea yilkeqkysf lqnpqtslcf sesiptpsnr
vktqqksnle llrisllliq swlepqvqlr svfanslvvg asdsnvyrhl kdleegiqlt mwrledgspr
tgqifnqsys kfdtkshndd allknygllly cfrkdmkve tflrivqcrs vegscgf

↑
N-linked
Glycan

(57) Abstract: The present invention relates to mutants of human growth hormone, which contain newly introduced N-linked or O-linked glycosylation site(s), such that these recombinantly produced polypeptides have glycosylation patterns distinctly different from that of the naturally occurring human growth hormone. The polynucleotide coding sequences for the mutants, expression cassettes comprising the coding sequences, cells expressing the mutants, and methods for producing the mutants are also disclosed. Further disclosed are pharmaceutical compositions comprising the mutants and method for using the mutants.

WO 2004/103275 A2



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