

SOMATOTROPINS WITH ALTERATIONS IN THE
ALPHA-HELIX 1 REGION, AND
COMBINATIONS WITH OTHER MUTATIONS

ABSTRACT OF THE INVENTION

The present invention relates to somatotropin analogues with amino acid changes in the alpha-helix 1 regions of said somatotropins, alone or in combination with mutations in the alpha-helix 3 and/or alpha-helix 2 regions, plus combinations with other changes to the native amino acid sequence of somatotropins. The resulting analogues are stable for formulation in sustained release formulations, while maintaining biological activity. Further, methods for conducting site-directed mutagenesis on DNA encoding proteins and/or polypeptide also are provided.

Figure 1