

AOD-9604

Purity: >98% (HPLC on request) | Molecular Formula: C78H123N23O23S2
Molar Weight: 1815.1 | Sequence: Tyr-Leu-Arg-Ile-Val-Gln-Cys-Arg-Ser-Val-Glu
Gly-Ser-Cys-Gly-Phe

DESCRIPTION:

AOD 9604 is a modified form of amino acids 176-191 of the GH proteins. Investigators at Monash University discovered that the fat-reducing effects of GH appear to be controlled by a small region near one end of the GH molecule. This region, which consists of amino acids 176-191, is less than 10% of the total size of the GH molecule and appears to have no effect on growth or insulin resistance. This hypothesis was proven in animals to a tremendous degree with specimen losing a significant

amount of fat mass. However, in phase three clinical trials the peptide didn't meet its confidence interval. Instead, it is now being studied for its effect on bone and cartilage. AOD 9604 possesses many other regenerative properties associated with growth hormone. Currently, trials are underway to show the application of AOD 9604 in osteoarthritis, Hypercholesterolemia, bone and cartilage repair & pain. AOD 9604 has an excellent safety profile, recently obtaining Human GRAS status in the USA.

PROTOCOL:

Content & Potency: Provided as a 5mg lyophilized vial

Vial reconstitution: 2ml sterile water for injection

Suggested dosage: Inject 250 mcg (0.1ml or 10units) subcutaneously twice a day

CLINICAL RESEARCH:

Safety and Tolerability of the Hexadecapeptide AOD 9604 in humans

Background: The human growth hormone (hGH) has fat loss properties making it a potential candidate to treat obesity. AOD 9604 is a peptide fragment of the C-terminus of hGH (Tyr-hGH177-191), which harbors the fat reducing activity of hGH, without its negative effects. In this paper the safety data of AOD 9604 obtained in clinical trials are summarized.

Methods: Six randomized, double-blind, placebo-controlled trials were performed with AOD 9604. Special focus was given to undesired effects associated with hGH treatment: increases in IGF-1 levels, insulin resistance, and impaired glucose tolerance. Blood samples were analyzed for presence of anti-AOD 9604 antibodies to exclude immunogenicity.

Results: AOD 9604 had no effect on serum IGF-1 levels, which confirms the hypothesis that AOD 9604 does not act via IGF-1. Results of oral glucose tolerance test demonstrated that, in contrast with hGH, AOD 9604 has no negative effect on carbohydrate metabolism. There were no anti-AOD 9604 antibodies detected in any of the patients selected for antibody assay. In none of the studies did a withdrawal or serious adverse event occur related to intake of AOD 9604.

Conclusion: AOD 9604 displayed a very good safety and tolerability profile indistinguishable from placebo. AOD 9604 did not result in any of the adverse effects associated with full-length hGH treatment