LGD-4033 – Part 1

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LGD-4033 is a peptide that is known as being a selective androgen receptor modulator, a category that is oftentimes abbreviated as SARM. The peptide will occasionally be seen under the alternative name of Lingandrol. Its molecular formula is C15H14F6N2, and it possesses a molecular weight of 336.28. When the peptide is administered for purposes of scientific study on animal test subjects, it is presented in a clear liquid form.

LGD-4033 at a Glance

According to scientific study that has been conducted on animal test subjects, LGD-4033 has been shown to possess a high affinity and selectivity when it bonds with various androgen receptors. Specifically, it has been shown to be in a class of androgen receptor ligands that are tissue selective. The peptide itself demonstrates a high level of activity in muscles. What this means is, the peptide has been shown to play a vital role in facilitating the growth and repair of muscular tissue. An addition, the peptide has also shown to possess activity in bones. It has also been shown to possess the capacity to have anti-absorptive properties, meaning that the peptide has the ability to slow or block the re-absorption of bone material.

Studies have indicated that LGD-4033 has the capacity to selectively target the androgen receptors in different tissues differently. This unique feature is due to the highly selective nature of the peptide. For example, LGD-4033 would react completely differently with muscle than it would with bone so that it may be able to maximize its overall effectiveness. Because of the peptide's highly selective nature, it has been theorized that the presence of the peptide can enable basic processes like muscular or skeletal growth to occur at a significantly faster rate in animal test subjects.

LGD-4033 and Testosterone

Because of the way in which LGD-4033 has been shown to function according to scientific study based on animal test subjects, it is thought that the peptide has the capacity to enhance the overall functionality of testosterone in male animal test subjects. This is especially the case because the peptide has been shown to be so highly selective in its nature. For instance, if the peptide's intended target happens to be bone, the peptide can in turn reach that intend that target and act in a certain manner in order to build and repair the bone without experiencing any disruption from other sources from within the animal test subject's body.

Because of the relationship that LGD-4033 has in relation to testosterone, it has been theorized through scientific study based on animal test subjects that the peptide could hypothetically used in hormone replacement therapy. This particular kind of therapy, which is oftentimes referred to as testosterone replacement therapy or TRT, is a hormone treatment that is often prescribed as a means to counter the effects of hypogonadism; that is the medical condition in which an insufficient amount of testosterone is not being produced. In this particular instance, the primary function of LGD-4033 would be to provide a more concrete means of homeostasis in terms of the effects of testosterone within male animal test subjects.

Furthermore, because it has been shown that LGD-4033 has the capacity to carry a high level of selectivity when it comes to targeting various aspects of an animal test subject's body, scientific study that has been based on animal test subjects has been able to hypothesize that it can be used in conjunction with various negative conditions and maladies that have been associated with a lesser amount of testosterone brought about by hypogonadism. For example, LGD-4033's ability to select bone has led to the hypothesis that the presence of the peptide could be utilized in the treatment of osteoporosis. This is the progressive bone disease that is characterized by a decrease in bone mass and density which in turn could lead to an increased risk of fracture. It is theorized that LGD-4033 would operate in such a way that it would provide the bones with a more elevated level of homeostasis, and therefore counteract the deterioration and bone mass decrease that is characteristic of the disease. It has been theorized that the peptide's anti- absorption properties could conceivably play a role into this.

LGD-4033 and Female Animal Test Subjects

In the case of female animal test subjects, scientific study has determined that the presence of the peptide could theoretically be instrumental in the process of stimulating bone retention as well. It has also been determined that it could also help to resolve problems with libido and other various sexual malfunctions that may be brought about by the influence of androgens. Furthermore, it has been thought that this process could be carried out without negative side effects such as the unwanted development of various male gender characteristics.