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## Product Data Sheet

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Product Name: LGD-4033 (Ligandrol)

Cat. No.: GC32408

### Chemical Properties

Cas. No. 1165910-22-4

SMILES N#CC1=CC=C(N2[C@@H]([C@@H](O)C(F)(F)F)CCC2)C=C1C(F)(F)F

Formula  $C_{14}H_{12}F_6N_2O$  M.Wt 338.25

Solubility DMSO:  $\geq 100$  mg/mL (295.64 mM) Storage Store at  $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at  $37^{\circ}C$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^{\circ}C$  for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure

### Background

LGD-4033 (Ligandrol) is an orally bioavailable, nonsteroidal selective androgen receptor modulator (SARM) that binds to the androgen receptor with a  $K_i$  value of 1 nM.<sup>1</sup> In animal models, LGD-4033 (Ligandrol) displays robust selectivity for muscle versus prostate tissues, anabolic activity in the muscle, and anti-resorptive and anabolic activity in bone.<sup>1</sup> LGD-4033 (Ligandrol) has been abused as a performance-enhancing drug and the identification of its *in vitro* metabolites has been described.<sup>2,3</sup> This product is intended for research and forensic applications.

### References:

1. Basaria, S., Collins, L., Dillon, E.L., et al. The safety, pharmacokinetics, and effects of LGD-4033, a novel nonsteroidal oral, selective androgen receptor modulator, in healthy young men. *J. Gerontol. A Biol. Sci. Med. Sci.* 68(1):87-95 (2013)
2. Geldof, L., Pozo, O.J., Lootens, L., et al. In vitro metabolism study of a black market product containing SARM LGD-4033. *Drug Test Anal.* 9(2):168-178 (2016)

**Caution: Product has not been fully validated for medical applications. For research use only.**

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3.Thevis, M., Lagojda, A., Kuehne, D., et al.Characterization of a non-approved selective androgen receptor modulator drug candidate sold via the internet and identification of in vitro generated phase-I metabolites for human sports drug testingRapid Commun Mass Spectrom.29(11)991-999(2015)

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