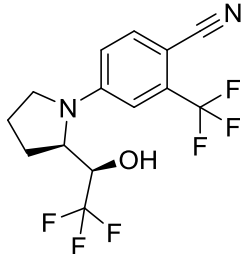


Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
522377	LGD-4033 (Ligandrol)	TZC60328

Chemical name
4-((R)-2-((R)-2,2,2-trifluoro-1-hydroxyethyl)pyrrolidin-1-yl)-2-(trifluoromethyl)benzonitrile

Synonyms
LGD-4033; LGD 4033; LGD4033; VK5211; VK-5211; VK 5211; Ligandrol.

Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 522377 Name: LGD-4033 (Ligandrol) CAS#: 1165910-22-4 Lot#: TZC60328 Chemical Formula: C ₁₄ H ₁₂ F ₆ N ₂ O Exact Mass: 338.08538 Molecular Weight: 338.25

Analysis item	Specifications / Results
Appearance	White to off-white solid powder
Structure	¹ H-NMR analysis matches the structure. MS analysis gives the correct molecule weight. Both NMR and MS data are consistent with those reported in the literature.
Purity (HPLC)	>99.0%
Solubility	Soluble in DMSO, not soluble in water.
Conclusion	This product conforms with MedKoo's quality standards
Shipping condition	Shipped under ambient temperature as non-hazardous chemical. This product is stable for a few weeks during ordinary shipping and time spent in customs.
Storage condition	Short term storage (weeks): 0 – 4 °C under dry condition Long term storage (months): -20 °C under dry condition
Self life	At least 5 years if properly stored.

CAUTION: NOT FULLY TESTED. FOR RESEARCH ONLY, NOT FOR HUMAN USE