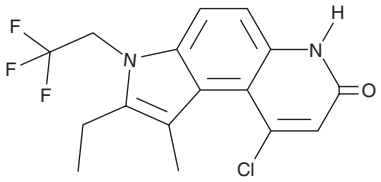
PRODUCT INFORMATION

LGD 3033

Item No. 40143

CAS Registry No.:	917891-35-1
Formal Name:	9-chloro-2-ethyl-3,6-dihydro-1-methyl-3-(2,2,2-trifluoroethyl)-7H-pyrrolo[3,2-f]quinolin-7-one
MF:	$C_{16}H_{14}ClF_3N_2O$
FW:	342.7
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

LGD 3033 is supplied as a solid. A stock solution may be made by dissolving the LGD 3033 in the solvent of choice, which should be purged with an inert gas. LGD 3033 is soluble in acetonitrile and DMSO.

Description

LGD 3033 is an androgen receptor agonist.[1] It selectively binds to the androgen receptor (K_i = 0.9 nM for the human receptor) over mineralocorticoid, glucocorticoid, and progesterone receptors (K_is = 1,261, 581, and 136 nM, respectively, for the human receptors). It also selectively induces reporter transcription in a reporter assay using CV-1 cells expressing the androgen receptor (EC_{50} = 3.6 nM) over CV-1 cells expressing the mineralocorticoid or progesterone receptors (EC_{50}s = 3,695 and 2,233 nM, respectively). LGD 3033 (3 mg/kg per day) increases levator ani muscle mass, but not prostate muscle mass, in orchiectomized (ORDX) male rats. It increases body weight and gastrocnemius mass, bone mineral content and density in the lumbar spine and mid-femur, and bone formation rate in ovariectomized (OVX) female rats when administered at a dose of 3 mg/kg per day. LGD 3033 (30 mg/kg per day) increases the time spent in the male area in a sexual preference test by sexually experienced, but not sexually inexperienced, estradiol benzoate- and progesterone-primed OVX female rats.[2]

References

1. Vajda, E.G., Hogue, A., Griffiths, K.N., *et al.* Combination treatment with a selective androgen receptor modulator (SARM) and a bisphosphonate has additive effects in osteopenic female rats. *J. Bone Miner. Res.* **24(2)**, 231-240 (2009).
2. Kudwa, A.E., López, F.J., McGivern, R.F., *et al.* A selective androgen receptor modulator enhances male-directed sexual preference, proceptive behavior, and lordosis behavior in sexually experienced, but not sexually naive, female rats. *Endocrinology* **151(6)**, 2659-2668 (2010).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM