GLP-2(3-33)

Cat. No.:	HY-P2625
CAS No.:	275801-62-2
Molecular Formula:	$C_{156}H_{242}N_{40}O_{53}S$
Molecular Weight:	3557.89
Sequence Shortening:	DGSFSDEMNTILDNLAARDFINWLIQTKITD
Target:	GCGR
Pathway:	GPCR/G Protein
Storage:	Sealed storage, away from moisture Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

BIOLOGICAL ACTIVITY

Description	GLP-2(3-33), generated naturally by dipeptidylpeptidase IV (DPPIV), acts as a partial agonist on GLP-2 receptor (EC_{50}=5.8 nM) [1][2].
In Vitro	GLP-2 is secreted as a 33-amino acid peptide, but is rapidly degraded at an N-terminus site to GLP-2(3-33) in circulation, in large part, by dipeptidylpeptidase IV (DPPIV). GLP-2 (3-33) acts as a partial agonist with potential competitive antagonistic properties on the GLP-2 receptor. In the GLP-2 receptor-binding assay, the binding IC_{50} for GLP-2 1–33 was 3.1 nM, and it was 41 nM for GLP-2 3-33. Thus, GLP-2 3–33 had 7.5% binding affinity compared to GLP-2 1-33[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	GLP-2(3-33) (60 ng; once a day i.p. for 4 weeks) increases dyslipidemia and hepatic lipid accumulation in HFD-fed mice[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male C57BL/6J (B6) mice (HFD)[2]
Dosage:	60 ng
Administration:	Once a day i.p. for 4 weeks
Result:	Significantly affected plasma lipids; Showed increase of triglycerides and cholesterol and reduction of HDL; Significantly increased plasma ALT and AST and intrahepatic lipid concentration.

REFERENCES

[1]. Baldassano S, et al. Influence of endogenous glucagon-like peptide-2 on lipid disorders in mice fed a high-fat diet. Endocr Res. 2016 Nov;41(4):317-324.

[2]. Thulesen J, Knudsen LB, Hartmann B, Hastrup S, Kissow H, Jeppesen PB, Ørskov C, Holst JJ, Poulsen SS. The truncated metabolite GLP-2 (3-33) interacts with the GLP-2 receptor as a partial agonist. Regul Pept. 2002 Jan 15;103(1):9-15.

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

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