Product Data Sheet

RG7697

Cat. No.:	HY-P10271	
Molecular Formula:	C ₂₁₁ H ₃₁₆ N ₄₆ O ₆₁	
Molecular Weight:	4473.04	
Sequence:	Tyr-{Aib}-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Ile-Tyr-Leu-Asp-Lys-Gln-Ala-Ala-{Aib}- Glu-Phe-Val-Asn-Trp-Leu-Leu-Ala-Gly-Gly-Pro-Ser-Ser-Gly-Ala-Pro-Pro-Pro-Ser-{Lys(C 16 acid)}-NH2	
Sequence Shortening:	Y-{Aib}-EGTFTSDYSIYLDKQAA-{Aib}-EFVNWLLAGGPSSGAPPPS-{Lys(C16 acid)}-NH2	
Target:	GLP Receptor	
Pathway:	GPCR/G Protein	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIV			
Description	RG7697 is a dual agonist for glucagon-like peptide receptor (GLP Receptor) and glucosedependent insulinotropic polypeptide receptor (GIPR), with EC ₅₀ of 5 and 3 pM, respectively. RG7697 exhibits antihyperglycemic property ^[1] .		
IC ₅₀ & Target	EC ₅₀ : 3 pM (GIPR), 5 pM (GLP Receptor)		
In Vivo	RG7697 (3-30 nmol/kg, s.c., daily for 7 days; or once every two weeks for 30 days) increases insulin secretion and metabolism, decreases glucose excursion, and ameliorates diet induced type 2 diabetes and obesity in C57BL/6 mice model [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Diet induced type 2 diabete and obesity in C57BL/6 mice $^{[1]}$	
	Dosage:	3-30 nmol/kg	
	Administration:	s.c., daily for 7 days or once every week for 30 days	
	Result:	Reduced body weight, blood glucose and food intake. Decreased intraperitoneal glucose tolerance, plasma insulin and cholesterol.	

REFERENCES

[1]. Schmitt C, et al., Pharmacodynamics, pharmacokinetics and safety of multiple ascending doses of the novel dual glucose-dependent insulinotropic polypeptide/glucagon-like peptide-1 agonist RG7697 in people with type 2 diabetes mellitus. Diabetes Obes Metab. 2017 Oct;19(10):1436-1445.

[2]. Finan B, et al., Unimolecular dual incretins maximize metabolic benefits in rodents, monkeys, and humans. Sci Transl Med. 2013 Oct 30;5(209):209ra151.



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

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