## Beinaglutide

Cat. No.:	HY-P3463			
CAS No.:	123475-27-4	1		
Molecular Formula:	C <sub>149</sub> H <sub>225</sub> N <sub>39</sub> O	46		
Molecular Weight:	3298.61			HAEGTFTSDVSSYLEGQAAKEF
Sequence Shortening:	HAEGTFTSD	VSSYLEG	GQAAKEFIAWLVKGR	
Target:	GCGR			
Pathway:	GPCR/G Pro	tein		
Storage:	Sealed stora	age, awa	y from moisture and light, under nitrogen	
	Powder	-80°C	2 years	
		-20°C	1 year	
	* In solvent	:-80°C,6	months; -20°C, 1 month (sealed storage, away from moisture	
	and light, ur	nder nitro	ogen)	

## SOLVENT & SOLUBILITY

In Vitro

DMSO : 1.79 mg/mL (0.54 mM; ultrasonic and adjust pH to 5 with HCl)

BIOLOGICAL ACTIV	ІТҮ ———				
Description	(7–36). Beinaglutide display	naglutide is a recombinant human GLP-1 (rhGLP-1) polypeptide that shares almost 100% homology with human GLP-1 36). Beinaglutide displays does-dependent effects in glycemic control, inhibiting food intake and gastric empty and moting weight loss. Beinaglutide has the potential for the research of overweight/obesity and nonalcoholic atohepatitis (NASH) <sup>[1][2]</sup> .			
In Vitro	Beinaglutide (100 nM; 48 h) increases the expression of phosphorylation of Akt in the adipocytes that were potentiated insulin-stimulated <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis <sup>[2]</sup>				
	Cell Line:	3T3L-1 cells			
	Concentration:	100 nM			
	Incubation Time:	48 h			
	Result:	Increased the phosphorylation of Akt in the adipocytes that were potentiated insulin- stimulated.			
In Vivo	inhibits food intake and wei Beinaglutide (150 μg/kg; s.c.	g/kg; s.c.; three times per day for 7 consecutive days) shows the ability of glycemic contro, ght loss in mouse <sup>[1]</sup> . .; daily for 6 weeks) increases insulin sensitivity of adipocytes <sup>[2]</sup> . confirmed the accuracy of these methods. They are for reference only.			





EFIAWLVKGR

**Product** Data Sheet

Animal Model:	Wild-type male C57BL/6 mice and Male Lepob/Lepob (ob/ob) mice (ob/ob-NASH mouse model was induced by GAN diet) <sup>[1]</sup>		
Dosage:	0.6, 1.2, 2.4 mg/kg		
Administration:	S.c.; three times per day for 7 consecutive days		
Result:	Significantly reduced blood glucose with dosedependence in C57BL/6 and ob/ob mice, dose dependently inhibits food intake and gastric Emptying, and significantly reduced body weight, food intake with dose-dependence.		
Animal Model:	Eight-week-old male C57BL/6 mice <sup>[2]</sup>		
Dosage:	150 μg/kg		
Administration:	S.c.; daily for 6 weeks		
Result:	Showed improved glucose tolerance and insulin sensitivity, decreased adipose tissue weight and adipocyte size and potentiated insulin sensitivity of adipocytes.		

## REFERENCES

[1]. Fang X, et al. Beinaglutide shows significantly beneficial effects in diabetes/obesity-induced nonalcoholic steatohepatitis in ob/ob mouse model. Life Sci. 2021 Apr 1;270:118966.

[2]. Zhang F, et al. Recombinant human GLP-1 beinaglutide regulates lipid metabolism of adipose tissues in diet-induced obese mice. iScience. 2021 Oct 30;24(12):103382.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA