## **BIBO3304 TFA**

Cat. No.:	HY-107725	
CAS No.:	191868-14-1	0
Molecular Formula:	$C_{_{31}}H_{_{36}}F_{_{3}}N_{_{7}}O_{_{5}}$	
Molecular Weight:	643.66	
Target:	Neuropeptide Y Receptor	
Pathway:	GPCR/G Protein; Neuronal Signaling	NH
Storage:	-20°C, sealed storage, away from moisture	
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

## SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (1	55.36 mM; Need ultrasonic)			
	Conce	Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	paring 1 mM 1.5536 mL 7.7681 mL	15.5362 mL		
		5 mM	0.3107 mL	1.5536 mL	3.1072 mL
		10 mM	0.1554 mL	0.7768 mL	1.5536 mL
	Please refer to the sol	ubility information to select the app	propriate solvent.		
In Vivo	<ol> <li>Add each solvent of Solubility: ≥ 2.5 mg</li> <li>Add each solvent of Solubility: ≥ 2.5 mg</li> <li>Add each solvent of Solubility: ≥ 2.5 mg</li> </ol>	one by one: 10% DMSO >> 40% PEG g/mL (3.88 mM); Clear solution one by one: 10% DMSO >> 90% (20 g/mL (3.88 mM); Clear solution one by one: 10% DMSO >> 90% cor g/mL (3.88 mM); Clear solution	G300 >> 5% Tween-80 % SBE-β-CD in saline) n oil	) >> 45% saline	

BIOLOGICAL ACTIV	ТТ
Description	BIBO3304 TFA is a potent, orally active, and selective neuropeptide Y (NPY) Y1 receptor antagonist, with subnanomolar affinity for both the human and the rat Y1 receptor (IC <sub>50</sub> =0.38 and 0.72 nM, respectively) <sup>[1]</sup> .
In Vivo	BIBO3304 TFA (30 μg; bilateral paraventricular nucleus injection) attenuates the hyperphagia following fasting <sup>[1]</sup> . BIBO3304 TFA (15-60 μg) dose-dependently inhibits the feeding reponse mediated by 1 μg NPY <sup>[1]</sup> . BIBO3304 TFA (0.5 μM; p.o.) significantly increases serum insulin levels <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## Product Data Sheet

Animal Model:	Adult male Chbb:Thom rats weighing between 300 and 340 g <sup>[1]</sup>
Dosage:	30 µg
Administration:	bilateral paraventricular nucleus injection
Result:	Attenuated the hyperphagia following fasting, especially during the first 2 h of refeedin
Animal Model:	7-week-old C57BL/6JAusb mice <sup>[2]</sup>
Animal Model: Dosage:	7-week-old C57BL/6JAusb mice <sup>L2J</sup> 0.5 μM
Animal Model: Dosage: Administration:	7-week-old C57BL/6JAusb mice <sup>[2]</sup> 0.5 μM p.o.

## REFERENCES

[1]. Wieland HA, et al. Subtype selectivity of the novel nonpeptide neuropeptide Y Y1 receptor antagonist BIBO 3304 and its effect on feeding in rodents. Br J Pharmacol. 1998 Oct;125(3):549-55.

[2]. Loh K, et al. Inhibition of Y1 receptor signaling improves islet transplant outcome. Nat Commun. 2017 Sep 8;8(1):490.

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