Proteins

Gemlapodect

Molecular Weight:

Cat. No.: HY-152838 1380329-87-2 CAS No.: Molecular Formula: $C_{22}H_{21}N_{7}O_{3}$

Phosphodiesterase (PDE) Target: Pathway: Metabolic Enzyme/Protease

431.45

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

PDE10A

Product Data Sheet

BIOLOGICAL ACTIVITY

IC₅₀ & Target

In Vivo Gemlapodect (5-15 mg; p.o.; once daily for 6 weeks) significantly improves the work and life social functions of Childhood-Onset Fluency Disorder (COFD) patients and shows biosafety^[2]. Gemlapodect (10 mg/kg; p.o.; single dose) shows nothing change in glucose tolerance of 9 weeks male SD rats^[2].

Gemlapodect (0.3 mg/kg; p.o.; once daily for 8 days) induces a slight glucose tolerance improvement, no changes in fasting blood glucose, and decreases of fasting insulin in 10 weeks male SD rats^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Adult male patients with COFD (18-50 years old) $^{[2]}$.		
Dosage:	5-15 mg.		
Administration:	Oral gavage; once daily for 6 weeks.		
Result:	Improved the Stuttering, work, social life, family life and home responsibilities of COFD patients and showed biosafety.		
Animal Model:	9 weeks or 10 weeks male SD rats ^[2] .		
Dosage:	0.3 mg/kg or 10 mg/kg.		
Administration:	Oral gavage; once daily for 1 or 8 days.		
Result:	Showed insignificantly change of glucose tolerance in healthy rats.		

REFERENCES

[1]. Zagorska A, et al. Phosphodiesterase 10 Inhibitors - Novel Perspectives for Psychiatric and Neurodegenerative Drug Discovery. Curr Med Chem. 2018;25(29):3455-3481.

2]. GARIBALDI, et al. METHODS	FOR THE TREATMENT OF CHILD	HOOD-ONSET FLUENCY DISORI	DER. World Intellectual Property Organization. W	/O2022162193
			cal applications. For research use only.	
	Tel: 609-228-6898	Fax: 609-228-5909 er Park Dr, Suite Q, Monmoutl	E-mail: tech@MedChemExpress.com	
	Address. I Dec	ir ark bi, saite Q, mommout	13411611011, 113 00032, 03/1	

Page 2 of 2 www.MedChemExpress.com