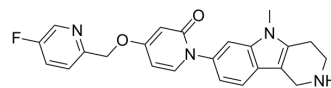


ALB-127158(a)

Cat. No.:	HY-111398		
CAS No.:	1173154-32-9		
Molecular Formula:	C ₂₃ H ₂₁ FN ₄ O ₂		
Molecular Weight:	404.44		
Target:	MCHR1 (GPR24)		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

Ethanol : 2 mg/mL (4.95 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.4726 mL	12.3628 mL	24.7255 mL
	5 mM	---	---	---
	10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

ALB-127158(a) is a potent and selective melanin concentrating hormone 1 (MCH₁) receptor antagonist.

IC₅₀ & Target

MCH₁ receptor^[1]

In Vitro

ALB-127158(a) has high affinity for the MCH₁ receptor (7 nM) with good selectivity over a range of other G-protein coupled receptors (GPCRs), ion channels and transporters, including the MCH₂ receptor. In vitro functional assays confirmed that ALB-127158(a) is a potent and selective MCH₁ receptor antagonist^[1].

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

In Vivo

In a mouse diet induced obesity (DIO) model, ALB-127158(a) produces a significant sustained decrease in body weight and food intake in the range of 5-15 mg/kg bid. The weight reduction is predominantly due to a decrease in fat content. In high fat diet (HFD) rats, ALB-127158(a) produces significant weight loss and food reduction at doses as low as 1.25 mg/kg po. Doses > 1.25 mg/kg po produces weight loss > 6%, maximal weight loss of about 10% in rats is observed at 10 mg/kg. Following single and multiple oral administration of ALB-127158(a), ALB-127158(a) is rapidly absorbed (median t_{max} attains between 1 and 3 h post dose in lean and overweight/obese subjects) with a trend to decrease over dose suggesting a slower

absorption rate of ALB-127158(a) at lower doses. After single doses, ALB-127158(a) has a mean half-life ($t_{1/2}$) of 18 to 21 h. Slightly longer mean $t_{1/2}$ estimates of approximately 26 h are obtained following multiple dosing in overweight/obese subjects; steady-state plasma ALB-127158(a) is attained within 6 to 8 days of dosing^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Moore NA, et al. From preclinical to clinical development: the example of a novel treatment for obesity. *Neurobiol Dis.* 2014 Jan;61:47-54.

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

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