VU0409106

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Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-110180 1276617-62-9 C ₁₅ H ₁₁ FN ₄ O ₂ S 330.34 mGluR GPCR/G Protein; Neuronal Signaling Please store the product under the recommended conditions in the Certificate of Analysis	
	Analysis.	

Description	VU0409106 is a potent a anxiolytic effects in rat r (BBB) ^{[1][2]} .	nd selective mGlu ₅ negative allosteric modulator (NA nodels in a concentration-dependent manner. VU040	M) with an IC ₅₀ of 24 nM. VU0409106 shows 9106 also penetrates the blood-brain barrier	
IC ₅₀ & Target	mGlu ₅ 24 nM (IC ₅₀)			
In Vivo	VU0409106 (10 mg/kg; i. near unity ^[1] . MCE has not independer	p.; once) penetrates the blood-brain barrier (BBB) and ntly confirmed the accuracy of these methods. They a	d demonstrates good brain to plasma ratio that re for reference only.	
	Animal Model:	CD-1 mice ^[1]		
	Dosage:	10 mg/kg (10% Tween 80 formulation)		
	Administration: Intraperitoneal injection.			
	Result:	Pharmacokinetic Parameters of VU0409106 in CD-1 mice ^[1] .		
		IP (10 mg/kg)	IP (10 mg/kg)	
		Plasma T _{max} (h)	0.25	
		Plasma C _{max} (ng/mL)	1450	
		Brain T _{max} (h)	0.25	
		Brain C _{max} (ng/mL)	1350	
		AUC _{plasma} (ng/mL•h)	702	

AUC _{brain} (ng/mL•h)	696	
B/P ratio	0.99	

REFERENCES

[1]. Felts AS, et al. Discovery of VU0409106: A negative allosteric modulator of mGlu5 with activity in a mouse model of anxiety. Bioorg Med Chem Lett. 2013 Nov 1;23(21):5779-85.

[2]. Morrison RD, et al. The role of aldehyde oxidase and xanthine oxidase in the biotransformation of a novel negative allosteric modulator of metabotropic glutamate receptor subtype 5. Drug Metab Dispos. 2012 Sep;40(9):1834-45.

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

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