TC OT 39

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-108678 479232-57-0 C ₃₂ H ₄₀ N ₈ O ₂ S 600.78 Oxytocin Receptor; Vasopressin Receptor GPCR/G Protein Please store the product under the recommended conditions in the Certificate of Analysis.	
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BIOLOGICAL ACTIV	TC OT 39 is a synthetic oxytocin analog, as well as a selective agonist of oxytocin receptor (OXTR, EC ₅₀ =180 nM). TC OT 39 is also an Avprla vasopressin receptor antagonist with an K _i value of 330 nM. TC OT 39 exhibits sedative effects in mouse models ^[1] .			
IC ₅₀ & Target	Avprla vasopressin receptor 300 nM (Ki)	Oxytocin Receptor 180 nM (EC50)		
In Vivo	TC OT 39 (50 mg/kg, 75 mg/kg; i.p.; 4 times during 8-9 days) significantly decreases the marble burying at dose of 50 mg/kg, and shows overt sedative-like effects at dose of 75 mg/kg in C57BL/6J mice ^[1] . Marble burying is based on the natural instinct of rodents to bury objects, commonly used in preclinical research to assess anxiety-like behavior in rodents ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

[1]. Moy SS, et al. Prosocial effects of an oxytocin metabolite, but not synthetic oxytocin receptor agonists, in a mouse model of autism. Neuropharmacology. 2019 Jan;144:301-311.

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

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Product Data Sheet

