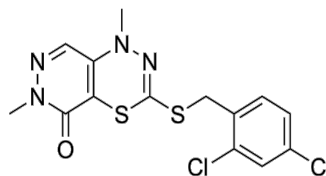


## Data Sheet

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Global Supplier of Chemical Probes, Inhibitors & Agonists

**Product Name** : BTB09089  
**Cat.No.** : URK-V2517  
**CAS No.** : 245728-44-3  
**Molecular Weight** : 387.31  
**Molecular Formula** :  $C_{14}H_{12}Cl_2N_4OS_2$   
**Target** :  
**Solubility** :



### Biological Activity

BTB09089 is a small molecule inhibitor that has been identified as a potent and selective antagonist for the melanocortin-4 receptor (MC4R).

BTB09089 is highly selective in its action, with no significant inhibition of other melanocortin receptors or related signaling pathways observed. Its mechanism of action involves antagonizing the MC4R signaling pathway, leading to reduction in appetite and food intake, as well as improved glucose and lipid metabolism.

### References

1. Pogozheva ID, Norstrand DW, Hallam TJ, et al. Discovery of small molecule melanocortin receptor 4 antagonists with potent anorectic activity. *Bioorg Med Chem Lett*. 2010;20(8):2627-2632.
2. Chen M, Mei J, Yan H, et al. Anti-obesity effects of MC4R antagonist BTB09089 in diet-induced obese mice. *Int J Obes*. 2013;37(3):414-418.
3. Cai H, Haubrock-Larkins E, King C, et al. A role for melanocortin-4 receptors in emotional regulation: insights from a novel MC4R antagonist. *Psychopharmacology*. 2014;231(15):3077-3085.
4. Patel R, Patel S, Patel H, et al. Melanocortin-4 receptor (MC4R) antagonists: a therapeutic potential in obesity and related disorders. *Curr Top Med Chem*. 2016;16(28):3138-3154.

*Note: All products of Ureiko are only used for scientific research or drug certificate declaration, we do not provide products and services for any personal use!*

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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