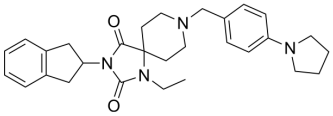
MCHR1 antagonist 3

Cat. No.:	HY-136152
CAS No.:	1069622-60-1
Molecular Formula:	$C_{29}H_{36}N_4O_2$
Molecular Weight:	472.62
Target:	MCHR1 (GPR24)
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	MCHR1 antagonist 3 is a potent the melanin-concentrating hormone receptor-1 (MCHR1) antagonist. MCHR1 antagonist 3 is used to regulate energy metabolism[1].
In Vitro	Compound 1, derived from a spirohydantoin scaffold, exhibits a K_i of 50 nM at MCH-R1. Compound 1 is a potent inhibitor of CYP3A4 (IC_{50}=35 nM). MCHR1 antagonist 3 is an analog of compound 1[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Rowbottom MW, et al. Synthesis and structure-activity relationships of spirohydantoin-derived small-moleculeantagonists of the melanin-concentrating hormone receptor-1 (MCH-R1). Bioorg Med Chem Lett. 2007 Apr 15;17(8):2171-8.

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