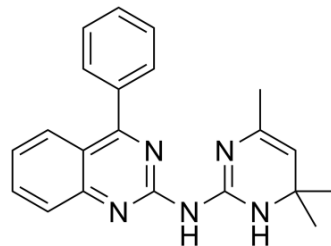


0990CL

Cat. No.:	HY-102076
CAS No.:	511514-03-7
Molecular Formula:	C ₂₁ H ₂₁ N ₅
Molecular Weight:	343.42
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	0990CL is a specific heterotrimeric Gai subunit inhibitor by direct interaction with Gai. 0990CL is able to block α 2AR mediated regulation of cAMP ^[1] .
IC ₅₀ & Target	IC50: Gai subunit ^[1]
In Vitro	0990CL (100 nM-1 μ M; 24 hours) is able to restore α 2AR/Gai mediated cAMP levels elicited by Fsk and UK14304 in HEK293 GloSensor cells. When the dosage is at 100 nM, it restores 31% of the reduction of cAMP ^[1] . 0990CL (30 μ M; pre-treatment 30mins) shows selectivity for Gai1 over Gaq. It demonstrates selectivity for Gai and Gaq and results in a maximum endpoint fluorescence reduction of 38 \pm 8% and 10%, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Appleton KM, et al. Development of inhibitors of heterotrimeric Gai subunits. *Bioorg Med Chem*. 2014 Jul 1;22(13):3423-34.

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

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