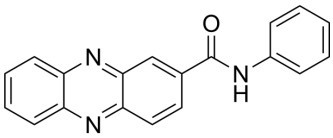
VU661

Cat. No.:	HY-148766
CAS No.:	37648-76-3
Molecular Formula:	$C_{19}H_{13}N_3O$
Molecular Weight:	299.33
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	VU661, a phenazine carboxamide, is a modulator of circadian rhythms to produce a period lengthening of the circadian rhythm. VU661 is a redox-active small molecule [1].
In Vitro	VU661 (1, 3, 10 μM; 0-144 h) produces a period lengthening effect (7.2 h at 10 μM) in a dose-dependent manner and a minimal effect on amplitude in Bmal1-dLuc U2OS cell lines[1]. VU661 (1, 10 μM; 24 h) increases the optical redox ratio in a dose-dependent manner in cells[1]. VU661 has little to no effect on cellular ROS or hydrogen peroxide levels[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kevin P Kelly, et al. Screen for Small-Molecule Modulators of Circadian Rhythms Reveals Phenazine as a Redox-State Modifying Clockwork Tuner. ACS Chem Biol. 2022 Jul 15;17(7):1658-1664.

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