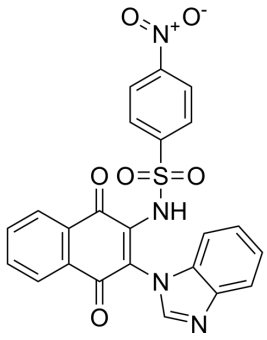
AUTEN-67

Cat. No.:	HY-117924
CAS No.:	1783800-77-0
Molecular Formula:	$C_{23}H_{14}N_4O_6S$
Molecular Weight:	474.45
Target:	Autophagy
Pathway:	Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AUTEN-67 (Autophagy enhancer-67) is an orally active autophagy enhancer and MTMR14 inhibitor. AUTEN-67 has anti-aging and neuroprotective effects. AUTEN-67 protects neurons from stress-induced cell death. AUTEN-67 also restores nesting behavior in a mice model of Alzheimer disease[1].
In Vitro	AUTEN-67 (2-100 μM, 3 h) inhibits MTMR14 by nearly 3%-70%, induces autophagic flux, and promotes the survival in HeLa cells[1]. AUTEN-67 (10-100 μM, 2 h) induces autophagy in Drosophila via inhibiting EDTP[1]. AUTEN-67 (1-50 μM) decreases levels of LC3B-II, and protects neurons from oxidative stress (increases cell viability) in murine primary neurons[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	AUTEN-67 enhances autophagy in zebrafish (10, 50 μM)and mice (e 50 μmol/g body weight, i.p.)[1]. AUTEN-67 (19 mg/kg, p.o., 3 times a week, for 3 month) restores nesting behavior and decreases APP level in the Alzheimer disease mice model[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Alzheimer disease model (Mice expressing the human APP)[1]
Dosage:	19 mg/kg, 3 times a week for 3 month
Administration:	Oral administration
Result:	Restored nesting behavior by around 30%. Decreased Amyloid β levels in the hemibrain of mice.

REFERENCES

[1]. Papp D, et al. AUTEN-67, an autophagy-enhancing drug candidate with potent antiaging and neuroprotective effects. Autophagy. 2016;12(2):273-86.

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

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