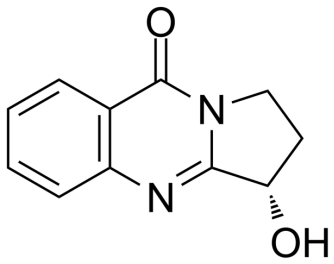
Vasicinone

Cat. No.:	HY-N1100
CAS No.:	486-64-6
Molecular Formula:	$C_{11}H_{10}N_2O_2$
Molecular Weight:	202.21
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Vasicinone is a quinazoline alkaloid isolated from the Adhatoda vasica plant. Vasicinone is a potential agent for Parkinson's disease and possibly other oxidative stress-related neurodegenerative disorders[1].

In Vitro

Vasicinone (1~30 μM; 24 hours; SH-SY5Y cells) significantly reverses the paraquat-induced reduction in cell viability[1].
Vasicinone (10 and 15 μM; 24 hours; SH-SY5Y cells) abates the paraquat-induced injury of SH-SY5Y cells by suppressing the MAPK signaling pathway, dose-dependently reduces the percentage of apoptotic cells and is capable of rescuing paraquat-induced apoptotic death[1].
Vasicinone (10 and 15 μM; SH-SY5Y cells) attenuates the paraquat-induced accumulation of reactive oxygen species (ROS) and attenuates the paraquat-induced expression of apoptotic proteins[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	SH-SY5Y cells
Concentration:	1~30 μM
Incubation Time:	24 hours
Result:	Significantly reversed the paraquat-induced reduction in cell viability.

Western Blot Analysis[1]

Cell Line:	SH-SY5Y cells
Concentration:	10 and 15 μM
Incubation Time:	24 hours
Result:	Abated the paraquat-induced injury of SH-SY5Y cells by suppressing the MAPK signaling pathway.

Apoptosis Analysis[1]

Cell Line:	SH-SY5Y cells

Concentration:	10 and 15 μM
Incubation Time:	24 hours
Result:	Dose-dependently reduced the percentage of apoptotic cells.

REFERENCES

[1]. Ju DT, et al. Effect of Vasicinone against Paraquat-Induced MAPK/p53-Mediated Apoptosis via the IGF-1R/PI3K/AKT Pathway in a Parkinson's Disease-Associated SH-SY5Y Cell Model. Nutrients. 2019;11(7):1655. Published 2019 Jul 19.

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