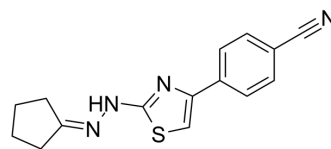


Remodelin

Cat. No.:	HY-16706
CAS No.:	949912-58-7
Molecular Formula:	C ₁₅ H ₁₄ N ₄ S
Molecular Weight:	282.36
Target:	Histone Acetyltransferase
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Remodelin is a novel potent and selective inhibitor of the acetyl-transferase protein NAT10. IC50 value: Target: NAT10 inhibitor. Remodelin can improve nuclear architecture, chromatin organization, and fitness of both human lamin A/C-depleted cells and HGPS-derived patient cells, and decrease markers of DNA damage in these cells. Using a combination of chemical, cellular, and genetic approaches, acetyl-transferase protein NAT10 was identified as the target of Remodelin that mediated nuclear shape rescue in laminopathic cells via microtubule reorganization. Down-regulation and mutations of the nuclear-architecture proteins lamin A and C cause misshapen nuclei and altered chromatin organization associated with cancer and laminopathies, including the premature-aging disease Hutchinson-Gilford progeria syndrome (HGPS). Remodelin is a useful chemical tool to study how NAT10 affects nuclear architecture and suggest alternative strategies for treating laminopathies and aging.

CUSTOMER VALIDATION

- Oncogene. 2021 Mar 12.
- J Mol Med (Berl). 2019 Aug;97(8):1183-1193.
- J Agric Food Chem. 2021 Dec 23.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Larrieu D, et al. Chemical inhibition of NAT10 corrects defects of laminopathic cells. Science. 2014 May 2;344(6183):527-32.

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

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