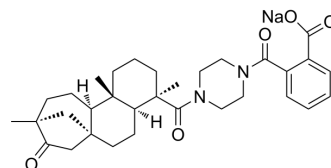


SIRT3 activator 1

Cat. No.:	HY-158162
Molecular Formula:	C ₃₂ H ₄₁ N ₂ NaO ₅
Molecular Weight:	556.67
Target:	Sirtuin
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SIRT3 activator 1 (Compound 5v) is a SIRT3 activator. SIRT3 activator 1 selectively elevates SIRT3 expression, leading to the upregulation of SOD2 and OPA1 expression, effectively preventing mitochondrial dysfunction, mitigating oxidative stress, and preserving cardiomyocyte viability. SIRT3 activator 1 can be used for research of cardiovascular diseases ^[1] .
In Vitro	SIRT3 activator 1 (0-10 μM) protects cardiomyocytes against oxidative damage induced by Doxorubicin (HY-15142A) in H9c2 cells by activating the SIRT3/SOD2 and OPA1 pathways ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Chen Z, et al. Design, Synthesis, and In Vivo Evaluation of Isosteviol Derivatives as New SIRT3 Activators with Highly Potent Cardioprotective Effects. J Med Chem. 2024 Apr 25;67(8):6749-6768.

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

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