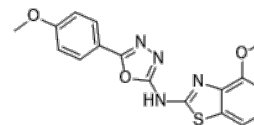


Product Name : N106
Cat. No. : PC-27148
CAS No. : 862974-25-2
Molecular Formula : C₁₇H₁₄N₄O₃S
Molecular Weight : 354.38
Target : Ubiquitin-activating Enzyme (E1)
Solubility : 10 mM in DMSO



Biological Activity

N106 is a specific small molecule activator of SUMOylation of SERCA2a, directly activates the SUMO-activating enzyme, E1 ligase, and triggers intrinsic SUMOylation of SERCA2a.

N106 increases SERCA2a's cellular activity and SUMOylation in adult cardiomyocytes. increased SERCA2a ATPase activity and levels of SERCA2a SUMOylation in cardiomyocytes.

N106 does not significantly stimulate any in-vitro activity of the ubiquitin-activating enzyme (Ub E1) at concentrations up to 100 μM, including ubiquitin activation, conjugation of ubiquitin to Ub E1 enzyme and Ub E1-dependent conjugation of ubiquitin to the E2 enzyme cdc32.

N106 is specific for SUMO E1 enzyme.

N106 treatment (0.1, 1.0 and 10 mg/ kg) increases contractile properties of cultured rat cardiomyocytes and significantly improves ventricular function in mice with heart failure.

References

Changwon Kho, et al. Nat Commun. 2015 Jun 12;6:7229.

Xu H, et al. Gene. 2024 Nov 15;927:148740.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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