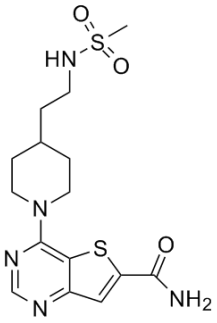
SIRT-IN-2

Cat. No.:	HY-16616
CAS No.:	1431411-66-3
Molecular Formula:	$C_{15}H_{21}N_5O_3S_2$
Molecular Weight:	383.49
Target:	Sirtuin
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	SIRT-IN-2 is a potent inhibitor of **SIRT1/2/3**, with **IC_{50}s** of 4, 4, 7 μM, respectively.		
IC_{50} & Target	SIRT1 4 nM (IC_{50})	SIRT2 1 nM (IC_{50})	SIRT3 7 nM (IC_{50})
In Vitro	SIRT-IN-2 (compound 31) is one of the most potent truncated pan SIRT1/ 2/3 inhibitor, the IC_{50} values are 4, 4, 7 μM, respectively. SIRT-IN-2 (SIRT1/2/3 pan inhibitor) binds identically in the catalytic active site (RMS=0.29 Å), occupying the nicotinamide C-pocket and acetyl lysine substrate channel[1].		

REFERENCES

[1]. Disch JS, et al. Discovery of thieno[3,2-d]pyrimidine-6-carboxamides as potent inhibitors of SIRT1, SIRT2, and SIRT3. J Med Chem. 2013 May 9;56(9):3666-79.

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