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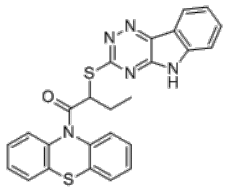
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Inauhzin
Cat. No.	:	PC-38473
CAS No.	:	309271-94-1
Molecular Formula	:	$C_{25}H_{19}N_5OS_2$
Molecular Weight	:	469.581
Target	:	MDM2-p53
Solubility	:	10 mM in DMSO



Biological Activity

Inauhzin (INZ) is a small molecule SIRT1 inhibitor that effectively reactivates p53, promotes p53-dependent apoptosis of human cancer cells without causing apparently genotoxic stress.
Inauhzin (INZ) induced p53 levels as effectively as actinomycin D (ActD, 10 nM), did not apparently affect the interaction between either MDMX and p53, or MDM2 and MDMX, or MDM2 and p53.
Inauhzin inhibited cell growth in a p53-dependent fashion against human lung cancer H460, A549, H1299, colon cancer HCT116, HT29 (IC50=5-50 uM), induceed p53 level and activity as well as p53-dependent apoptosis.
Inauhzin (INZ) stabilizes p53 without either directly inhibiting MDM2-mediated ubiquitylation or causing genotoxicity.
Inauhzin (INZ) effectively inhibits SIRT1 deacetylase activity at 3 uM, directly binds to SIRT1 in vitro, induces p53 acetylation at lysine 382 at 2 uM in cells.
Inauhzin (INZ) induces p53 and p53-dependent apoptosis in vivo and suppresses the growth of human xenograft tumours.

References

Zhang Q, et al. EMBO Mol Med. 2012 Apr;4(4):298-312.

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