Tenovin 1

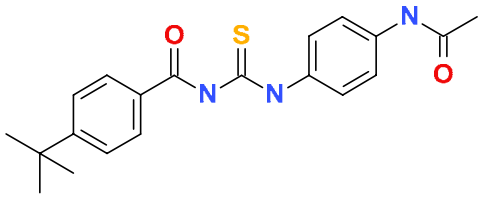
Cat. # SI9865

Background: Tenovin 1 inhibits the deacetylase activity of SirT1 and SirT2. One of the substrates for SirT1 is p53 which is stabilized by acetylation of Lys-382. The ability of p53 to bind DNA is also enhanced by acetylation of Lys-382. Hence, inhibition of SirT1 by tenovin 1 leads to increased stability and activity of p53 (Lain, Hollick et al. 2008).

Application: Studying the role of sirtuins in regulating cell growth

Product Information

CAS No.:	380315-80-0
Purity:	99%; NMR consistent with structure
Molecular Weight:	369.48
Physical State:	Powder
Quantity:	10mg
Solubility:	200mM in DMSO
Storage:	Store dessicated as supplied at -20°C for 2 years
Formula:	$C_{20}H_{23}N_3O_2S$
SMILES String:	CC(=O)Nc1ccc(cc1)NC(=S)NC(=O)c2ccc(cc2)C(C)(C)C



References

Lain, S., J. J. Hollick, et al. (2008). "Discovery, in vivo activity, and mechanism of action of a small-molecule p53 activator." Cancer Cell **13**(5): 454-463.