

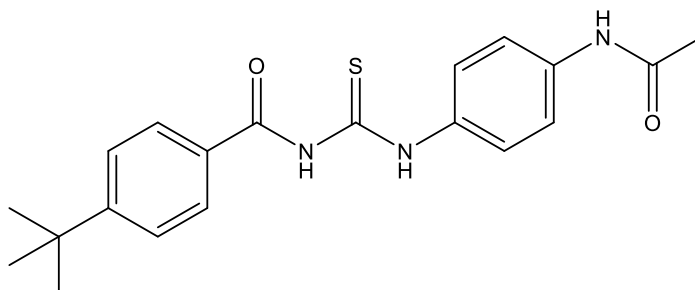
Catalog # 10-2982

Tenovin-1

CAS# 380315-80-0

N-[(4-Acetamidophenyl)carbamothioyl]-4-tert-butylbenzamide

Lot # X109721



Tenovin-1 activates p53 via inhibition of SIRT1 and SIRT2.^{1,2} Induces apoptosis in a variety of cancer cell lines including cutaneous T-cell lymphoma³ and melanoma⁴ among others⁵. Induces cellular senescence in cultured rat primary astrocytes⁶ as well as other cell types.

- 1) Lain *et al.* (2008), *Discovery, in vivo activity, and mechanism of action of a small-molecule p53 activator*; *Cancer Cell*, **13** 454
- 2) Sonnemann *et al.* (2014), *p53-dependent and p53-independent anticancer effects of different histone deacetylase inhibitors*; *Br. J. Cancer* **110** 656
- 3) Nihal *et al.* (2014), *SIRT1 is upregulated in cutaneous T-cell lymphoma, and its inhibition induces growth arrest and apoptosis*; *Cell Cycle* **13** 632
- 4) Wilking *et al.* (2014), *SIRT1 deacetylase is overexpressed in human melanoma and its small molecule inhibition imparts anti-proliferative response via p53 activation*; *Arch. Biochem. Biophys.* **563** 94
- 5) Marx *et al.* (2018), *The sirtuin 1/2 inhibitor tenovin-1 induces a nonlinear apoptosis-inducing factor-dependent cell death in a p53 null Ewing's sarcoma cell line*; *Invest. New Drugs* **36** 396
- 6) Bang *et al.* (2019), *Tenovin-1 Induces Senescence and Decreases Wound-Healing Activity in Cultured Rat Primary Astrocytes*; *Biomol. Ther. (Seoul)* **27** 283

PHYSICAL DATA

Molecular Weight:	369.48
Molecular Formula:	C ₂₀ H ₂₃ N ₃ O ₂ S
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (10 mg/ml with warming)
Physical Description:	White solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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