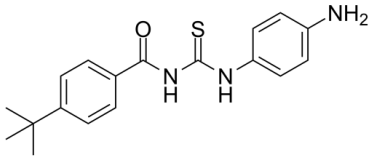
Data Sheet

Product Name:	Tenovin-3
Cat. No.:	CS-5581
CAS No.:	1011301-27-1
Molecular Formula:	C18H21N3OS
Molecular Weight:	327.44
Target:	MDM-2/p53
Pathway:	Apoptosis
Solubility:	DMSO : ≥ 31 mg/mL (94.67 mM)



BIOLOGICAL ACTIVITY:

Tenovin-3 is able to increase p53 levels, determined in MCF-7 cells treated for 6 hr at 10 μM. Target: p53 in vitro: Tenovins inhibit the activities of human SirT1 and SirT2, two members of the NAD+-dependent class III histone deacetylases that also belong to the sirtuin family.[1]

PROTOCOL (Extracted from published papers and Only for reference)

Cell Assay [1] Tenovin -3 stock solutions were at 2 mM in DMSO. HCT116 and HCT116 p53-/- cells , EW36 and BL2, NTera2D and NTera2D-DNp53 cells , ARN8 cells, NHDF fibroblasts , and SKNH-pCMV and SKNSH-DNp53 were used. Cell viability was determined by trypan blue exclusion, Giemsa staining, or MTT assays. Annexin-V/propidium iodide labeling was performed following recommendations by manufacturers and quantified by Flow Cytometry. Cell-cycle distribution was carried out by BrdU labeling and FACS.

References:

[1]. Lain S, et al. Discovery, in vivo activity, and mechanism of action of a small-molecule p53 activator. Cancer Cell. 2008 May;13(5):454-63.

CAIndexNames:

Benzamide, N-[[(4-aminophenyl)amino]thioxomethyl]-4-(1,1-dimethylethyl)-

SMILES:

O=C(NC(NC1=CC=C(N)C=C1)=S)C2=CC=C(C(C)(C)C)C=C2

Caution: Product has not been fully validated for medical applications. For research use only.

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