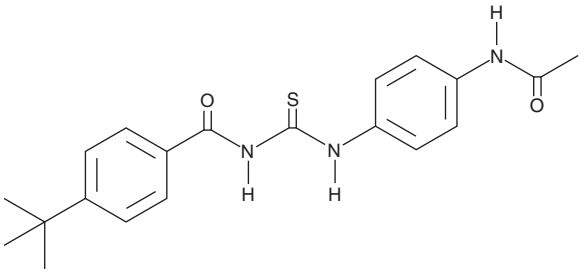
PRODUCT INFORMATION

Tenovin-1

Item No. 13085

CAS Registry No.:	380315-80-0
Formal Name:	N-[[[4-(acetylamino)phenyl]amino]thioxomethyl-4-(1,1-dimethylethyl)]-benzamide
MF:	$C_{20}H_{23}N_3O_2S$
FW:	369.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 274 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Tenovin-1 is supplied as a crystalline solid. A stock solution may be made by dissolving the tenovin-1 in the solvent of choice, which should be purged with an inert gas. Tenovin-1 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of tenovin-1 in these solvents is approximately 0.25 and 0.50 mg/ml, respectively.

Description

Tenovin-1 is a small molecule activator of p53 transcriptional activity. At 10 µM, it elevates p53 expression in MCF-7 cells within two hours of treatment and longer-term exposure significantly decreases the growth of BL2 Burkitt's lymphoma and ARN8 melanoma cells.[1] Functioning upstream of p53, tenovin-1 acts by inhibiting the deacetylase activity of purified human SIRT1 and SIRT2, members of NAD^+-dependent class III histone deacetylases that belong to the sirtuin family.[1] While tenovin-1 demonstrates low genotoxicity, the compound has poor water solubility, which limits its uses *in vivo*.

Reference

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

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