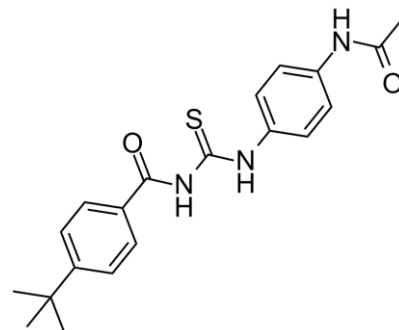


Product Data Sheet

Chemical Properties

Product Name:	Tenovin-1
Cas No.:	380315-80-0
M.Wt:	369.5
Formula:	C ₂₀ H ₂₃ N ₃ O ₂ S



Chemical Name:	N-[(4-acetamidophenyl)carbamothioyl]-4-tert-butylbenzamide
Canonical SMILES:	<chem>CC(=O)NC1=CC=C(C=C1)NC(=S)NC(=O)C2=CC=C(C=C2)C(C)(C)C</chem>
Solubility:	>15mg/mL in DMSO
Storage:	Store at -20°C
General tips:	For obtaining a higher solubility , please warm the tube at 37° C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20° C for several months.
Shopping Condition:	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request

Biological Activity

Targets : Apoptosis

Pathways: p53

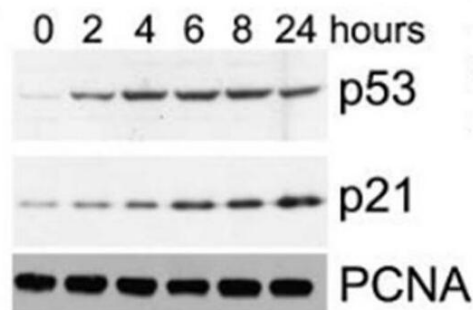
Description:

Tenovin-1, a small molecule discovered by a cell-based screen, is a bio-active activator of p53 that elevates the levels of p53 protein, p53-downstream target p21CIP/WAF1 protein and mRNA and protects p53 from mdm2-mediated degradation with little impact on p53 synthesis. Tenovin-1 also exerts inhibition against human sirtuin 1 (SirT1) and sirtuin 2 (SirT2), two important members of the sirtuin family. Due to its insufficient solubility, an improved and water-soluble version of tenovin-1 has been found to decrease the peptide deacetylase activity of human SirT1 and SirT2 with values of 50% inhibition concentration IC₅₀ of 21 μM and 10 μM respectively.

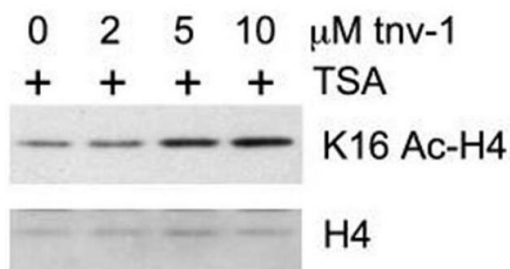
Reference:

Lain S, Hollick JJ, Campbell J, Staples OD, Higgins M, Aoubala M, McCarthy A, Appleyard V, Murray KE, Baker L, Thompson A, Mathers J, Holland SJ, Stark MJ, Pass G, Woods J, Lane DP, Westwood NJ. Discovery, in vivo activity, and mechanism of action of a small-molecule p53 activator. *Cancer Cell*. 2008 May;13(5):454-63. doi: 10.1016/j.ccr.2008.03.004.

Product Validation



Treatment of Tenovin-1 increases p53 and p21 levels



Treatment of Histone H4 acetylation at K16

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

ApexBio Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com