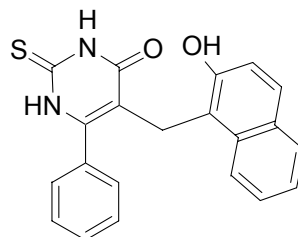


5-(2-Hydroxy-naphthalen-1-ylmethyl)-6-phenyl-2-thioxo-2,3-dihydro-1H-pyrimidin-4-one (NSC-112546) - SIRT1/2 Inhibitor IV, Cambinol



C₂₁H₁₆N₂O₂S
Mol. Wt.: 360.43

Ref.: Heltweg et al. **Antitumor activity of a small-molecule inhibitor of human silent information regulator 2 enzymes.** *Cancer Research* (2006), 66, 4368-4377

Cambinol inhibits NAD-dependent deacetylase activity of human SIRT1 and SIRT2. Consistent with the role of SIRT1 in promoting cell survival during stress, inhibition of SIRT1 activity with cambinol during genotoxic stress leads to hyperacetylation of key stress response proteins and promotes cell cycle arrest. Treatment of BCL6-expressing Burkitt lymphoma cells with cambinol as a single agent induced apoptosis, which was accompanied by hyperacetylation of BCL6 and p53. Because acetylation inactivates BCL6 and has the opposite effect on the function of p53 and other checkpoint pathways, the antitumor activity of cambinol in Burkitt lymphoma cells may be accomplished through a combined effect of BCL6 inactivation and checkpoint activation. Cambinol was well tolerated in mice and inhibited growth of Burkitt lymphoma xenografts. Inhibitors of NAD-dependent deacetylases may constitute novel anticancer agents.

OTAVA catolg no.	CAS RN	Amount	Delivery time	Purity
7020402315	14513-15-6	1 mg 5 mg 25 mg 1 gram 5 grams	In-stock In-stock In-stock In-stock In-stock	≥ 95% by HPLC, ¹³ C NMR & ¹ H NMR