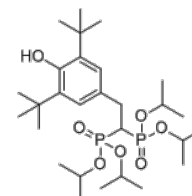

Product Name	: Apomine
Cat. No.	: PC-49778
CAS No.	: 126411-13-0
Molecular Formula	: C ₂₈ H ₅₂ O ₇ P ₂
Molecular Weight	: 562.66
Target	: HMG-CoA Reductase (HMGCR)
Solubility	: 10 mM in DMSO



Biological Activity

Apomine (SR-45023A) is an oral bisphosphonate antineoplastic compound inhibiting **HMG-CoA reductase**, induces HMG-CoA reductase degradation with EC₅₀ of 0.88 uM.

Apomine (SR-45023A) inhibited growth of a wide variety of tumor cell line with IC₅₀ of 5-14 uM.

Apomine (SR-45023A) triggered apoptosis in HL60 cells in less than 2 h, induced caspase-3 activity at concentrations similar to their IC₅₀ values for cell proliferation.

Apomine (SR-45023A) selectively inhibits cell proliferation and induces tumor cell apoptosis through the farnesoid X receptor.

References

Flach J, et al. *Biochem Biophys Res Commun*. 2000 Apr 2;270(1):240-6.

Alberts DS, et al. *Clin Cancer Res*. 2001 May;7(5):1246-50.

Toyota Y, et al. *Bioorg Med Chem*. 2020 Jul 15;28(14):115576.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com
