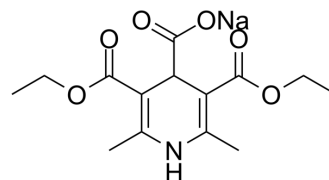


AV-153

Cat. No.:	HY-135218
CAS No.:	27296-05-5
Molecular Formula:	C ₁₄ H ₁₈ NNaO ₆
Molecular Weight:	319.29
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AV-153, a 1,4-dihydropyridine (1,4-DHP) derivative, is an antimutagenic. AV-153 intercalates to DNA in a single strand break and reduces DNA damage, stimulates DNA repair in human cells in vitro. AV-153 interacts with thymine and cytosine and has an influence on poly(ADP)ribosylation. AV-153 has anti-cancer activity ^{[1][2][3]} .
In Vitro	AV-153 causes IC ₅₀ s for Raji and HL-60 cells of 14.9 mM and 10.3 mM, respectively ^[1] . AV-153 (1 nM to 10 μM; 3 hours) reduces the level of spontaneously arising DNA single-strand breaks (SSBs) in peripheral blood lymphocytes or HL-60 cells by 13-67% ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Nadezhda I Ryabokon, et al. A 1,4-dihydropyridine Derivative Reduces DNA Damage and Stimulates DNA Repair in Human Cells in Vitro. *Mutat Res.* 2005 Nov 10;587(1-2):52-8.
- [2]. E Buraka, et al. DNA-binding Studies of AV-153, an Antimutagenic and DNA Repair-Stimulating Derivative of 1,4-dihydropyridine. *Chem Biol Interact.* 2014 Sep 5;220:200-7.
- [3]. Lidija Milkovic, et al. Antioxidative 1,4-Dihydropyridine Derivatives Modulate Oxidative Stress and Growth of Human Osteoblast-Like Cells In Vitro. *Antioxidants (Basel).* 2018 Sep 19;7(9):123.

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

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