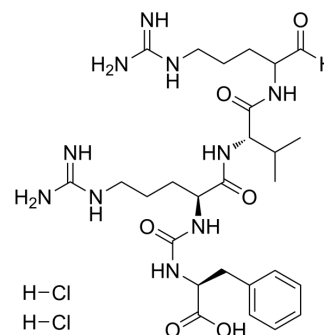


Antipain dihydrochloride

Cat. No.:	HY-127034
CAS No.:	37682-72-7
Molecular Formula:	C ₂₇ H ₄₆ Cl ₂ N ₁₀ O ₆
Molecular Weight:	677.62
Target:	Ser/Thr Protease; DNA/RNA Synthesis
Pathway:	Metabolic Enzyme/Protease; Cell Cycle/DNA Damage
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	Antipain dihydrochloride is a protease inhibitor isolated from Actinomycetes. Antipain dihydrochloride inhibits N-methyl-N'-nitro-N-nitrosoguanidine (MNNG)-induced transformation and increases chromosomal aberrations. Antipain dihydrochloride restricts uterine DNA synthesis and function in mice ^{[1][2][3][4]} .
In Vivo	The intact, cycling female mice received subcutaneous injections of Antipain dihydrochloride (3 mg) for 16 days, their uteri shows significant diminution in weight and total DNA when compared to untreated controls ^[4] . Antipain dihydrochloride (100 µg/g body wt; i.p.; at 12h intervals from 0 to 120 h or 240 to 360 h) shows inhibitory effect on Urethane-induced lung neoplasia in mice ^[5] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. DiPaolo JA, et al. Antipain inhibits N-methyl-N'-nitro-N-nitrosoguanidine-induced transformation and increases chromosomal aberrations. Proc Natl Acad Sci U S A. 1980 Nov;77(11):6649-53.
- [2]. Suda H, et al. Antipain, a new protease inhibitor isolated from actinomycetes. J Antibiot (Tokyo). 1972 Apr;25(4):263-6.
- [3]. Sudha VT, et al. Identification of a serine protease as a major allergen (Per a 10) of Periplaneta americana. Allergy. 2008 Jun;63(6):768-76.
- [4]. Nomura T, et al. Inhibiting effects of antipain on urethane-induced lung neoplasia in mice. Br J Cancer. 1980;42(4):624-626.
- [5]. Katz J, et al. Antipain and leupeptin restrict uterine DNA synthesis and function in mice. Proc Natl Acad Sci U S A. 1977;74(9):3754-3757.

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

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