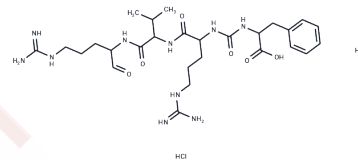


Antipain dihydrochloride

Chemical Properties

CAS No. :	37682-72-7
Formula:	C ₂₇ H ₄₆ Cl ₂ N ₁₀ O ₆
Molecular Weight:	677.62
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Antipain dihydrochloride (Antipain 2HCl) is a protease inhibitor derived from Actinomycetes that exhibits analgesic activity and inhibits X-ray-induced chromosomal aberrations in human lymphocytes.
Targets(IC50)	Protease,DNA/RNA Synthesis,Serine Protease
In vivo	Intact, cycling female mice received subcutaneous injections of Antipain dihydrochloride (3 mg) for 16 days, resulting in significant diminution in uterine weight and total DNA compared to untreated controls[1].Antipain dihydrochloride (100 µg/g body weight; i. p.; at 12-hour intervals from 0 to 120 h or 240 to 360 h) exhibits an inhibitory effect on urethane-induced lung neoplasia in mice[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4758 mL	7.3788 mL	14.7575 mL
5 mM	0.2952 mL	1.4758 mL	2.9515 mL
10 mM	0.1476 mL	0.7379 mL	1.4758 mL
50 mM	0.0295 mL	0.1476 mL	0.2952 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Nomura T, et al. Inhibiting effects of antipain on urethane-induced lung neoplasia in mice. *Br J Cancer*. 1980;42(4):624-626.

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.

Isogai E, Ishijima S, Sonoda T, Kita K, Suzuki H, Hasegawa R, Yamamori H, Takakubo Y, Suzuki N. Protease activation following UV irradiation is linked to hypomutability in human cells selected for resistance to combination of UV and antipain. *Mutat Res*. 1998 Jul 17;403(1-2):215-22. PubMed PMID: 9726021.

Souza-Silva F, Bourguignon SC, Pereira BA, Côrtes LM, de Oliveira LF, Henriques-Pons A, Finkelstein LC, Ferreira VF, Carneiro PF, de Pinho RT, Caffarena ER, Alves CR. Epoxy- α -lapachone has in vitro and in vivo anti-leishmania (*Leishmania amazonensis*) effects and inhibits serine proteinase activity in this parasite. *Antimicrob Agents Chemother*. 2015 Apr;59(4):1910-8. doi: 10.1128/AAC.04742-14. Epub 2015 Jan 12. PubMed PMID: 25583728; PubMed Central PMCID: PMC4356828.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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