Data Sheet (Cat.No.T26637)



Antipain dihydrochloride

Chemical Properties

CAS No.: 37682-72-7

Formula: C27H46Cl2N10O6

Molecular Weight: 677.62

Appearance: no data available

Storage: store at low temperature

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

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
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.

Reference

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

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