

Specification

Antipain Dihydrochloride *BioChemica*

A2129

Physical Description:	Solid
Product Code:	A2129
Product Name:	Antipain Dihydrochloride <i>BioChemica</i>
Specifications:	Inhibitory activity (Trypsin, L-BAPA): > 30 U/mg (pH 7.8, 25°C)
WGK:	1
Storage:	-20°C
Molecular Formula:	$C_{27}H_{44}N_{10}O_6 \cdot 2HCl$
M:	677.63 g/mol
CAS:	37682-72-7
CS:	29419000
Comment	<p>Antipain was isolated from different actinomyces (e. g. <i>Streptomyces michigaensis</i>, <i>Streptomyces yokosukaensis</i>). It is an inhibitor of trypsin-like proteases (e. g. trypsin, papain, cathepsin B; ref. 2, 3). Cathepsin A, a carboxypeptidase, is inhibited too, which is not true for other inhibitors from actinomyces (2). The name is derived from anti-papain. The working concentration in the commonly used inhibitor cocktails ranges from 10 - 50 µg/ml. A stock solution can be prepared in water, DMSO or methanol at concentrations of 10 mg/ml.</p>
Bibliography	<p>(1)Umezawa, S. <i>et al.</i> (1972) <i>J. Antibiotics</i> 25, 267-270 Structure of Antipain. (2)Ikezawa, H. <i>et al.</i> (1972) <i>J. Antibiotics</i> 25, 738-740 Effect of Antipain on lysosomal Peptide-Hydrolases from Swine liver. (3)Umezawa, H. (1976) <i>Methods Enzymol.</i> 45, 678-695 Structures and activities of protease inhibitors of microbial origin.</p>

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