Actinonin

Protease inhibitor

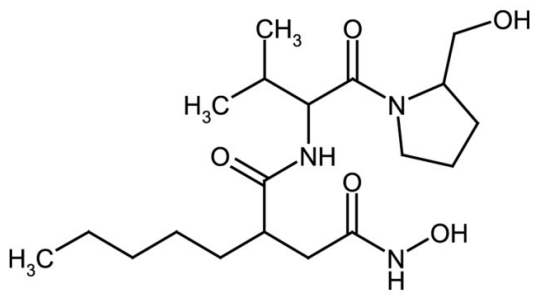
Antibiotic. Inhibitor of aminopeptidase M, N and leucine and alanyl aminopeptidase and peptide deformylase (PDF). Inhibits MMP-1 (K_i =300nM), MMP-2 (IC_{50}~90nM at MMP-2=5nM), MMP-3 (K_i=1'700nM), MMP-7 (IC_{50}~3'500nM at MMP-7=19nM), MMP-8 (K_i=160nM), MMP-9 (K_i =330nM), MMP-10 (IC_{50}~500nM at MMP-10=22nM), MMP-12 (IC_{50} ~350nM at MMP-12=4nM), and MMP-13 (IC_{50}~100nM at MMP-13=13nM), but not MMP-14 (IC_{50}>1mM at MMP-14=13.6nM). Shows antitumor activity *in vitro* and *in vivo*. Apoptosis inducer.

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Ordering Information Order Online »

ALX-260-128-M005	5mg

Manuals, SDS & CofA View Online »


CH3
O
OH
H3C
N
O
NH
O
H3C
N
H
OH

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	3[[1-[[2-(Hydroxymethyl)-1-pyrrolidinyl]-carbonyl]-2-methylpropyl]-carbamoyl]-octanohydroxamic acid
Appearance	White to off-white powder.
CAS	13434-13-4
Couple Target	Aminopeptidase, MMP, MMP-1, MMP-10, MMP-12, MMP-13, MMP-2, MMP-3, MMP-7, MMP-8, MMP-9, Peptide deformylase
Couple Type	Inhibitor
Formula	$C_{19}H_{35}N_3O_5$
MW	385.5
Purity	≥98% (HPLC)
Solubility	Soluble in 100% ethanol (20mg/ml) or DMSO (>20mg/ml).
Source	Synthetic.

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