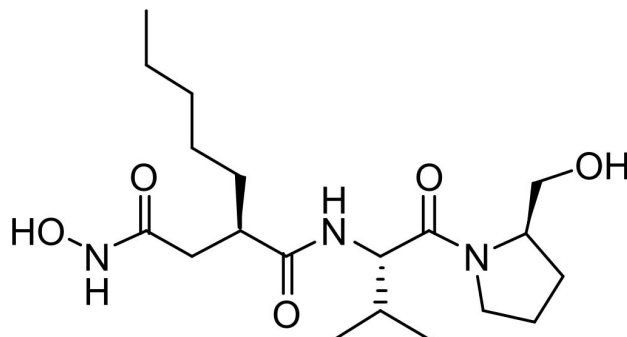


## Actinonin



### Synonyms:

Actinonine, (-)-Actinonin, CONA 57, Ro 06-1467

## Specifications

CAS #	: <b>13434-13-4</b>
Molecular Formula	: <b>C19H35N3O5</b>
Molecular Weight	: <b>385.5</b>
Source	: -
Appearance	: <b>White solid</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in methanol or DMSO</b>

## Application Notes

Actinonin was first reported in Nature in 1962. Actinonin is a bacteriostatic agent with activity against Gram-positive and fastidious Gram-negative microorganisms. Actinonin inhibits MMP, aminopeptidases and peptide deformylase. Actinonin inhibits growth of NB4 and HL60 human cell lines and AKR mouse leukemia cells in vitro. Its effects on apoptosis, growth inhibition, and therapeutic effects in vivo are not likely to be mediated by CD13/APN.

## References

1. Actinonin: an antibiotic substance produced by an actinomycete. Gordon J.J. et al. Nature 9162, 195, 701.
2. Actinonin, a Naturally Occurring Antibacterial Agent, Is a Potent Deformylase Inhibitor. Chen D.Z. et al. Biochemistry 2000, 39, 125.
3. Cell-based evidence for aminopeptidase N/CD13 inhibitor actinonin targeting of MT1-MMP-mediated proMMP-2 activation. Sina A. et al. Cancer Letters 2009, 279, 171.