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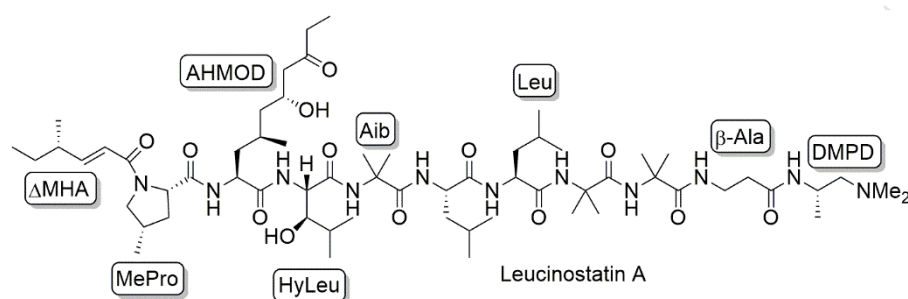
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# Structure-Activity Relationship Study of Leucinostatin A, a Modulator of Tumor–Stroma Interaction

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## (Graphical Abstract)

**Keywords:** Leucinostatin, Structure-Activity Relationship, Tumor–Stroma Interaction, Peptide, Anticancer agent

**ABSTRACT:** Structure-activity relationship studies of leucinostatin A, a natural nonapeptide, were performed to gain insight into the structural requirements for leucinostatin A to exhibit antiproliferative activity against DU-145 prostate cancer cells under cocultured conditions with the corresponding stromal cells. Twenty truncated peptide analogs of leucinostatin A revealed that the nonapeptide structure as a whole is essential for the biological activity. Alanine scanning demonstrated the importance of some of the amino acid components, including hydroxyleucine and

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