

QSAR study of peptides as apoptotic inducer.

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Abstract

We have investigated the effects of 20 oligopeptides on the apoptosis induction¹). The three-dimensional structures of peptides were determined by molecular modeling. To find the most suitable candidate, the Quantitatively Structure-Activity Relationships (QSAR) was used. The QSAR study was carried out using SYBYL7.1 (Tripos Inc., USA) on a Linux enterprise 3.0. The apoptotic activity data was obtained with flow cytometry analysis and Annexin V assay.

Reference

1. Min Kyoung Kim, Youl-Hee Cho, Jung Mogg Kim, Moon Woo Chun, Seung Ki Lee, Yoongho Lim and Chul-Hoon Lee, Induction of apoptosis in human leukemia cells by MCS-C2 via caspase-dependent Bid cleavage and cytochrome crelease (2005), *Cancer Lett.* 223(2), 239-47.