عنوان مقاله:

Synthesis of cyclic peptide Longicalycinin A analogues by using solid resin

محل انتشار:

نخستین همایش ملی توسعه در علوم و صنایع شیمیایی (سال: 1395)

تعداد صفحات اصل مقاله: 4

نویسندگان:

a Bamoniri - *Department of Organic Chemistry, Faculty of Chemistry, University of Kashan, Kashan, I.R. Iran*

m.h HoushdarTehrani - *Department of Pharmaceutical Chemistry, School of Pharmacy, Shahid Beheshti University of .Medical Sciences, Tehran, I.R. Iran*

b.f Mirjalili - *Department of Chemistry, College of Science, Yazd University, Yazd, I.R. Iran*

.m Gholibeikian - *Department of Organic Chemistry, Faculty of Chemistry, University of Kashan, Kashan, I.R. Iran*

خلاصه مقاله:

The aim of this study is designing of two cyclic penta peptide Longicalycinin A analogues which might have expected anticancer activity. In this work, Longicalycinin A and their two analogues, which have shown good toxicity against cell lines of HepG2 (human liver cancer cell line), HT-29 (human colorectal adenocarcinoma cell line) and A549 (adenocarcinomic human alveolar basal epithelial cells) using 3-(4,5-Dimethylthiazol-2-yl)-2,5-diphenyltetrazoliumbromide (MTT assay). 2-chlorotritylchloride resin (2-CTC) was used as solid support and a suitable resin. Macrocyclization of linear (Ot-Bu) Longicalycinin A analogues were done by coupling reagent and then the final deprotection were done on cyclic (Ot-Bu) Longicalycinin A analogues by treatment of trifluoroacetic acid 95% and scavengers. The synthesized cyclic Longicalycinin A analogues were characterized by using different methods .such as, LC-MS and FT-IR

کلمات کلیدی:

Longicalycinin A, Peptide , Macrocyclization, Tritylchloride resin