7-Methoxyheptaphylline Sensitizes TRAIL-induced Colorectal Adenocarcinoma Cells Death through Up-Regulation of DR5 Expression by Activation of JNK

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Cancer

This study aimed to investigate the effect of carbazole derivatives, including heptaphylline and 7-methoxyheptaphylline from Clausena harmandiana on TRAIL-induced colon adenocarcinoma (HT-29) cell death.

Methods

1. Test compounds: heptaphylline, 7-methoxyheptaphylline
2. Cell viability: MTT-assay
3. Cell morphology: Phase contrast microscopy
4. mRNA expression: RT-PCR, Real time RT-PCR
5. Protein expression: Immunoblotting

Conclusion

This study indicated that 7-methoxyheptaphylline, a carbazole derivative enhanced TRAIL-induced HT-29 colon adenocarcinoma apoptosis by increased level of DR5 through JNK pathway.

References


Acknowledgement

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