

2D-QSAR study of natural coumarin against human bladder carcinoma cell line EJ

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The seven natural coumarins are active against human bladder carcinoma cell line EJ. The IC₅₀ values of these coumarins were collected from the literature and 2D-Quantitative Structure Activity Relationship studies were executed using Easy QSAR 1.0 tool. Multiple linear regression (MLR) analysis was carried out using the descriptors from PaDEL 2.13 software to determine the relationship between the structural properties and the anticancer activity. The result of the investigation showed the contribution of descriptors to the activity. The present study may be helpful for the design of potent inhibitors against human bladder carcinoma cell line EJ using natural coumarins.

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