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Chemical constituents and their cytotoxicity from the roots of *Dalbergia velutina*

Sutin Kaennakam
Chulalongkorn University, Thailand

Three new pterocarpans, velucarpins A-C and two new isoflavanes, dalvelutinanes A-B along with six known compounds were isolated from the roots of *Dalbergia velutina*. Their chemical structures including absolute configurations were determined by spectroscopic analysis (1D and 2D NMR, HRESIMS and CD). All isolated compounds were evaluated for their cytotoxicity against five cancer cell lines (KB, HeLa S-3, MCF-7, HepG-2 and HT-29). Compound 10 showed good cytotoxicity against all the five cancer cell lines with IC_{50} values in the range of 3.47-9.76 μM. In addition, compound 3, 7 and 9 showed good cytotoxicity against KB and HeLa S-3 cells with IC_{50} values in the range of 5.99-9.54 μM and compound 5 showed good cytotoxicity against MCF-7 cell with IC_{50} value of 4.69 μM.

Biography

Sutin Kaennakam has completed his PhD from Chulalongkorn University in Thailand and Postdoctoral studies from Natural Products Research Unit, Department of Chemistry, Faculty of Science of Chulalongkorn University, Thailand. He has published more than 8 papers in reputed journals.

n-s-k-@hotmail.com

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