

Identification of Target Receptor Compound 10,11-Dihydroerisodin as an Anti-Cancer Candidate

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Abstract : Cancer is one of the most feared diseases and is considered the leading cause of death worldwide. Generally, cancer drugs are synthetic drugs with relatively more expensive prices and have harmful side effects, so many people turn to traditional medicine, for example by utilizing herbal medicine. *Erythrina poeppigiana* is one of the plants that can be used as a medicinal plant containing 10,11-dihydroerisodin compounds that are useful anticancer etnofarmakologi. The purpose of this study was to identify the target of 10,11 dihydroerisodin receptor compound as in silico anticancer candidate. The pure isolate was tested physicochemically by MS (Mass Spectrometry), UV-Vis (Ultraviolet - Visible), IR (Infra Red), ¹³C-NMR (Carbon-13 Nuclear Magnetic Resonance), ¹H-NMR (Hydrogen-1 Nuclear Magnetic Resonance), to obtain the structure of 10,11-dihydroerisodin alkaloid compound then identified to target receptors in silico. From the results of the study, it was found that 10,11-dihydroerisodin compound can work on the Serine / threonine-protein kinase Chk1 receptor that serves as an anti-cancer candidate.

Keywords : anti-cancer, *Erythrina poeppigiana*, target receptor, 10,11- dihydroerisodin

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