Sesquiterpene Formamides from the Nudibranch Phyllidia Coelestis BERgh

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1-Formamido-abeo-pupukeanane (1) and 2-formamidopupukeanane (2) were isolated from the nudibranch Phyllidia coelestis Bergh., and chemical structures were elucidated base on spectroscopic methods, X-ray diffraction and CD analysis. The structure of 1 was proposed to be an unprecedented rearranged tricyclic sesquiterpene derived from the parent skeleton of sesquiterpenes in pupukeanane family. The two compounds were tested for the cytotoxicity against HeLa, MCF-7, KB and HT-29 to show moderate to good activity.

Keywords: Phyllidia coelestis Bergh, sesquiterpene, pupukeanane.