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Title:	Design, synthesis and characterization of picoline based organoselenium compounds, 1,2-bis(pyridine-2/3/4-yl)methyl diselanes: X-ray crystal structure of 1,2-bis(pyridine-3-yl)methyldiselane
Authors:	Rishu (/jspui/browse?type=author&value=Rishu)
Keywords:	Carbaldehyde Piperidine Selenium Diselane
Issue Date:	2015
Publisher:	Elsevier
Citation:	Journal of Organometallic Chemistry, 785 pp. 19-25
Abstract:	An efficient synthetic protocol affording symmetrical 1,2-bis(pyridine-2/3/4-yl)methyldiselanes from pyridine-2/3/4-carbaldehyde in high yields at room temperature, without using highly toxic hydrogen selenide, has been developed. The synthesis involves the reductive selenation of pyridine-2/3/4-carbaldehyde with sodium hydrogen selenide, NaHSe in the presence of piperidine hydrochloride followed by NaBH ₄ reduction under mild conditions. Primary screening of the anti-proliferative activity of the newly synthesized compounds against several mammalian cell lines and pathogenic strains has been carried out. The crystal structure of 1,2-bis(pyridine-3-yl)methyldiselane has been established by X-ray diffraction analysis.
Description:	Only IISERM authors are available in the record.
URI:	https://www.sciencedirect.com/science/article/pii/S0022328X15000923 (https://www.sciencedirect.com/science/article/pii/S0022328X15000923) http://hdl.handle.net/123456789/2900 (http://hdl.handle.net/123456789/2900)
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