



Semisynthesis of alpha-methyl-gamma-lactones and in vitro evaluation of their activity on protein farnesyltransferase

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Titre	Semisynthesis of alpha-methyl-gamma-lactones and in vitro evaluation of their activity on protein farnesyltransferase
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Auteur	Pinel, Benoit [1], Dubois, Joëlle [2], Seraphin, Denis [3], Richomme, Pascal [4]
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Résumé en anglais	The semisynthesis of xanthanolide derivatives is reported from xanthinin and 4-epi-isoxanthanol, two sesquiterpene lactones isolated from the crude chloroformic extract of the leaves of <i>Xanthium macrocarpum</i> DC. (Asteraceae) by liquid/liquid chromatography. In vitro evaluation of their protein farnesyltransferase (PFTase) inhibitory activity has been investigated. In contrast to other biological activities of xanthanolides, PFTase inhibition is not associated with the presence of the potentially toxic α -methylene- γ -lactone function.
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