

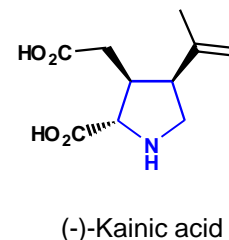
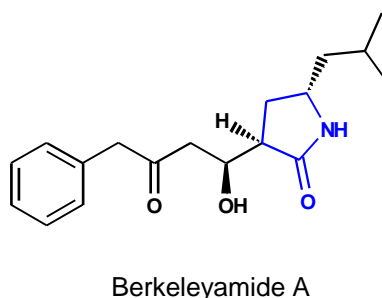
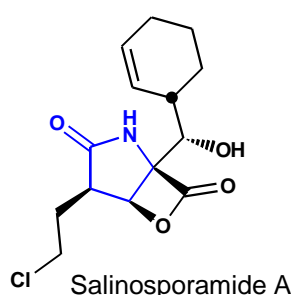
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Ph-D Thesis proposal:

Merging metathesis and radical cyclizations: Application to the the total synthesis of berkeleyamide A and related pyrrolidinones

Pyrrolidinone is a common subunit found in numerous biological active compounds as salinosporamide A (a secondary metabolite isolated from marine microorganisms of genus *salinospora tropica* which is considered as a very promising anti-cancer agent)^{1,2} and also berkeleyamide A isolated from *Penicillium rubrum*, which is an inhibitor of caspase 1 in submicron range.³



In connection, with our interest in the total synthesis of marine natural products by using **metathesis** and/or **radical cyclizations**,⁴⁻⁵ we have designed a new synthetic pathway to pyrrolidinones which could be generalized to other natural targets. All new compounds will be tested by the way of the “chimiothèque du CNRS”.

The candidate should possess excellent skills in synthetic organic chemistry.

References:

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