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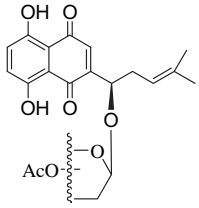
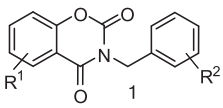
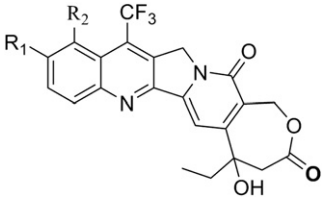
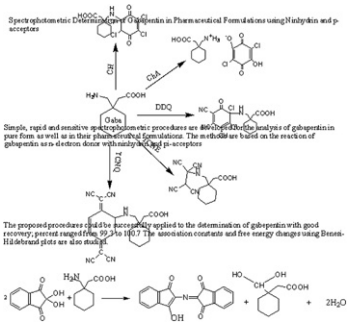
Contents

ORIGINAL ARTICLES

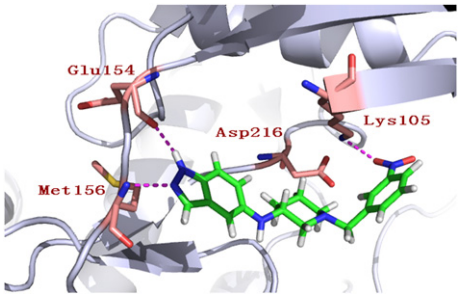




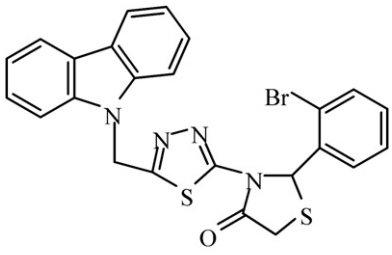




The interactions between the active site and compound 36 produced using the PyMol program [38]. Key hydrogen bonds to the protein backbone are highlighted in magenta.

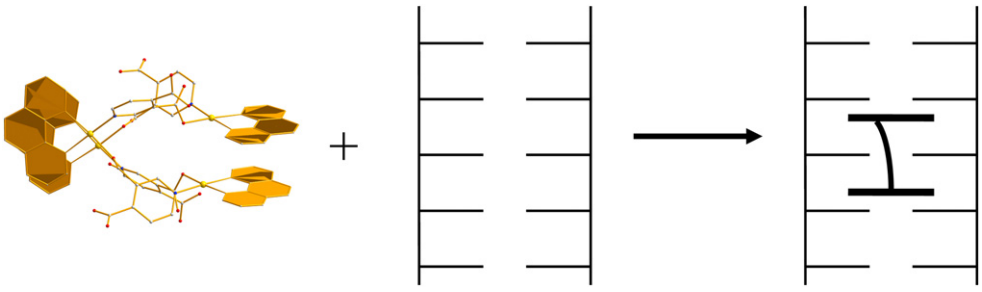


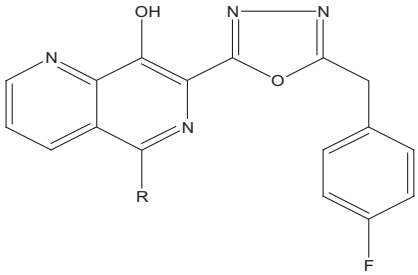
Synthesis and anticonvulsant activity of new oxa/thiadiazolylazetidinonyl/ thiazolidinonylcarbazole derivatives were reported here in. The compound **6j** exhibited promising antipsychotic and anticonvulsant activity.

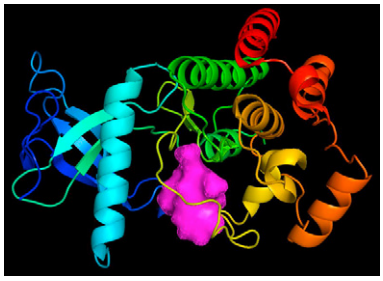


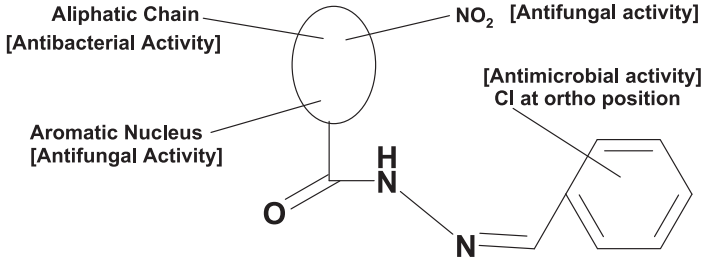
(6j)

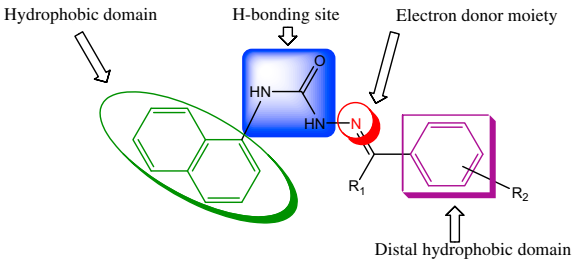
A tetranuclear complex with dipalladated phenanthroline rings bisintercalate to the base pairs of DNA.

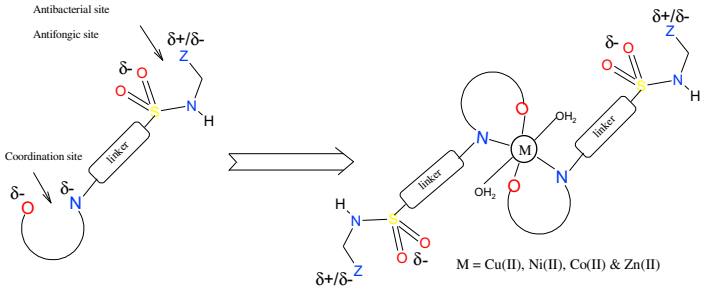


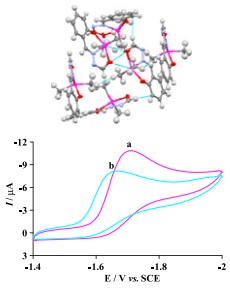


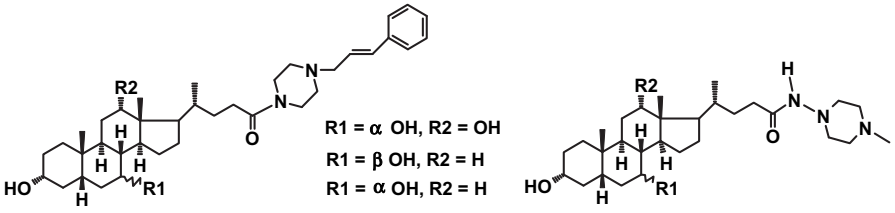


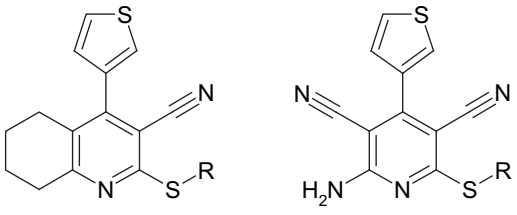


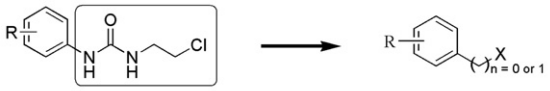








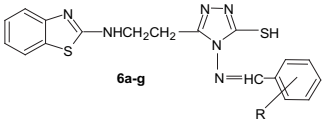




***N*-Phenyl-*N′*-(2-chloroethyl)ureas**
R = 4-Iodo (n = 0)
4-*tert*-Butyl (n = 0 et 1)
3-Pentyl (n = 0)
3-(Pentan-1-ol) (n = 0)
3-(Methoxy-1-pentyl) (n = 0)
3-(Hexan-2-one) (n = 0)

X = 3-Chloropropylureas (**1**, **CPU**)
2-Chloroacetylureas (**2**, **CAU**)
Ethylureas (**3**, **EU**)
2-Chloroacetamides (**4**, **CA**)
3-Chloropropionamides (**5**, **CPA**)
4-Chlorobutyramides (**6**, **CBA**)
Acrylamides (**7**, **Acr**)

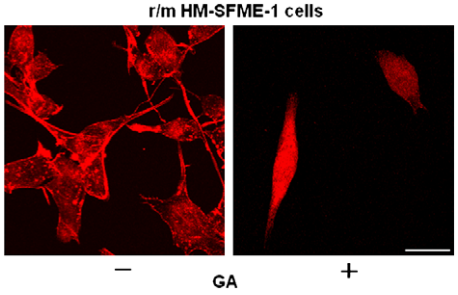
A novel series of 5-[2-(1,3-benzothiazol-2-yl-amino) ethyl]-4-(arylideneamino)-3-mercapto-(4*H*)-1,2,4-triazoles **6a**–**g** were synthesized and evaluated for their antimicrobial activity to identify potential compounds.



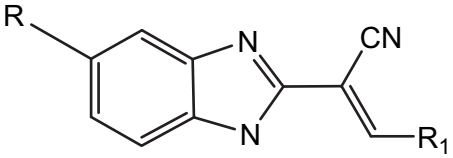
6a-g

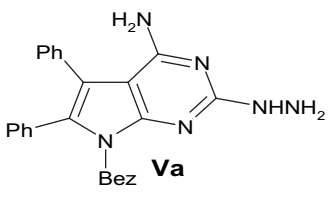
R= H, 4-OH, 2-NO_2, 3-NO_2, 2-Cl, 4-$N(CH_3)_2$, 3,4-OCH_3

GA disrupts actin cytoskeleton and shows selective toxicity against the CNS tumorigenic progenitor cells.

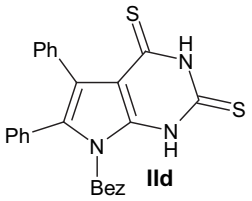


Synthesis and in vitro anticancer evaluation of various series of 2-substituted benzimidazoles.



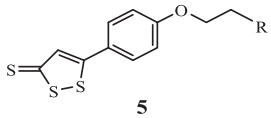


Va

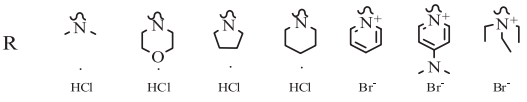


IId

The water-soluble prodrug **5a** exhibited the best hepatoprotective activity equal to the reference drug anethole trithione. Their main metabolite was the same desmethyl anethole trithione found in mice.

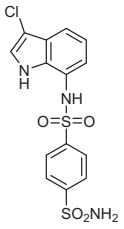


5

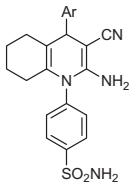


5a 5b 5c 5d 5e 5f 5g

A series of some new 4-(quinolin-1-yl)benzenesulfonamide derivatives **6a**–**u** was synthesized, and evaluated for their *in vitro* anticancer activity.

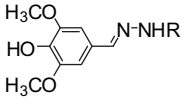


(E7070)

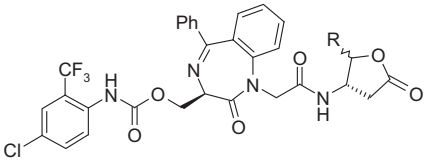


6a-u

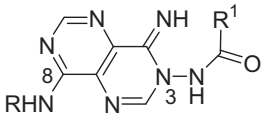
A series of syringic hydrazones has been synthesized. Their antioxidant properties and their carbonyl scavenger efficiency have been explored suggesting a new class of agents.



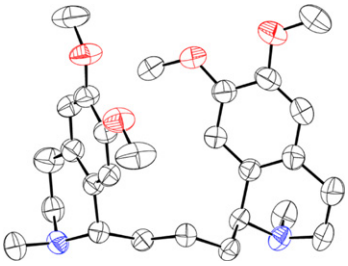
SHORT COMMUNICATIONS



PRELIMINARY COMMUNICATIONS



LABORATORY NOTE



COVER

Image of Antibacterial activities of urea and thiourea derivatives of 15-membered azalides in comparison to sulfonylurea analogs. 44/9, P3459-3470 by Mirjana Bukvić Krajačić, Predrag Novak, Miljenko Dumić, Mario Cindrić, Hana Čipčić Paljetak and Nedjeljko Kujundžić © 2009 Published by Elsevier Masson SAS

* Corresponding authors.

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