

COVER LETTER

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July 20, 2021

Dear Editor of Indonesian Journal of Chemistry,

We wish to submit an original research article entitled “Synthesis and Docking Study of 2-aryl-4,5-diphenyl-1H-imidazole Derivatives as Lead Compounds for Antimalarial Agent” for consideration by the Indonesian Journal of Chemistry.

We confirm that the written manuscript is original, and no part of it has been published before, nor is any part of it currently under consideration for publication elsewhere.

In this manuscript, we reported the three imidazole derivatives with good response for antimalaria for in vitro examination against the chloroquine-sensitive *Plasmodium falciparum* 3D7 strain. These imidazoles are very simple structure and easily made under microwaves assisted organic synthesis. Compared with some published imidazole compounds for antimalarial agents, imidazoles usually combined with other structure of heterocyclic compound such as quinolines, these derivatives are only one step synthesis and very quick method as well as rare structures for antimalarial activities. The in vitro test results have also been agreed by molecular docking study. Possibility to be developed as antimalarial agents has been examined the physicochemical and pharmacokinetic parameters. They were computationally performed to predict the ADMET (absorption, distribution, metabolism, excretion, and toxicity) parameters. All imidazoles **1**, **2**, and **3** obeyed Lipinski's rules of five to propose as a lead compound for the antimalarial agents. We believe that this manuscript is appropriate for publication in the Indonesian Journal of Chemistry and will give some citations who search antimalarial agents.

Please find below a list of potential reviewers for this work.

We have no conflicts of interest to disclose.

Please address all correspondence concerning this manuscript to me at purwono.bambang@ugm.ac.id.

Your consideration is very much appreciated. We are looking forward to your favorable reply.

Sincerely,

Bambang Purwono

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2. Reviewers have no research collaboration with authors in the last three years.
3. If possible, reviewers have a different nationality.
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