

ReviewForm3

JournalName:	SouthAsianResearchJournalofNaturalProducts
ManuscriptNumber:	Ms_SARJNP_127070
Titleof theManuscript:	ASSESSMENTOFANALGESICPOTENTIALOFDIBENZYLIDENEDERIVATIVESOFCYCLOPENTANONE
Typeof the Article	

PART1: ReviewComments

Compulsory REVISIONcomments	Reviewer'scomment	Author'sFeedback(Pleasecorrectthemanuscriptandhighlightthatpartinthemanuscript.Itismandatorythatauthorsshouldwritehis/herfeedbackhere)
Pleasewriteafew sentencesregardingtheimportance ofthismanuscriptfor thescientificcommunity.Whydo youlike(ordislike)thismanuscript?Aminimumof3-4 sentencesmayberequiredforthispart.	ThestudyconcludesthatD6,D7,D8,andD10possessremarkableanalgesicpotential,warrantingfurther investigationintotheirtherapeuticapplications.Thefindingscontributetotheongoingsearchforeffective painmanagementsolutionswithreducedsideeffects.	
Isthetitleofthearticlesuitable? (Ifnotpleasesuggestanalternativetitle)	Yes	
Istheabstractofthearticlecomprehensive?Doyou suggesttheaddition(ordelation)of somepointsinthis section?Pleasewriteyoursuggestionshere.	Yes	
Aresubsectionsandstructureofthemanuscript appropriate?	Yes	

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<p>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</p>	<p>This research appears to have scientific value and publication potential for the following reasons:</p> <ol style="list-style-type: none">1. Therapeutic potential: The research findings indicate that dibenzylidene compounds, especially D6, D7, and D10, have significant analgesic potential that could be used as new options in pain management. These results have been clearly demonstrated in hot plate and tail flick models.2. Valid methods: The use of reliable experimental models such as the hot plate model and tail flick model to assess the analgesic potential of compounds enhances the credibility of the research. These models can effectively demonstrate the effects of drugs on pain sensation.3. Precise data analysis: Laboratory data were analyzed using GraphPad Prism 10.2 software and two-way ANOVA test. These statistical methods helped provide accurate and reliable results, determining the significant level at $p < 0.05$.4. Attention to ethical aspects: The study protocol was approved by the university's ethics committee, indicating adherence to ethical principles in the research. <p>Considering these factors, the research can be considered a valid and valuable study in the field of pharmacology and pain management, and potentially has the possibility of publication in scientific journals.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p> <p>-</p>	<ol style="list-style-type: none">1. Khamooshi F, Doraji-Bonjar S, Akinnawo AS, Ghaznavi H, Salimi-Khorashad AR, and Khamooshi MJ (2023) Dark Classics in Chemical Neuroscience: Comprehensive Study on the Biochemical Mechanisms and Clinical Implications of Opioid Analgesics. <i>Chemical Methodologies</i> 7(12): 964-993. DOI: 10.48309/chemm.2023.414616.17312. Khamooshi F, Akinnawo AS, Doraji-Bonjar S, and Modarresi-Alam AR (2024) Mitragynine Chemistry: Extraction, Synthesis, and Clinical Effects. <i>Chemistry Africa</i>. DOI: 10.1007/s42250-024-00921-63. Khamooshi F, Mousavi SM, Doraji-Bonjar S, and Zolfigol M (2022) Anti-HIV Drugs Study: Study of NNRTIs Function and Overview Synthesis of Specific and Rare Aryloxy Tetrazoles Derivatives as NNRTIs and Anti-HIV Drug. <i>Medicon Pharmaceutical Sciences</i> 2(3):04-10. DOI: https://themedicon.com/pdf/mcps/MCPS-22-034.pdf	

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<p>Minor REVISION comments</p> <p>Isthe language/English quality of the articles suitable for scholarly communications?</p>	<p style="text-align: center;">Yes</p>	
<p>Optional/General comments</p>	<p>The disadvantages of this study include:</p> <ol style="list-style-type: none"> 1. Limitation in sample size: The number of mice used in each group was only six, which may not be sufficient for generalizing the results to larger populations. This could affect the validity of the results and may require repetition with larger samples. 2. Lack of investigation into side effects: The study did not investigate the side effects of the compounds being tested. This could lead to overlooking potential negative effects of these compounds on the health of the mice. 3. Variability in individual responses: Individual responses of mice to pain stimuli may vary, and this variability could impact the results. For example, paw thickness and individual responses to stimuli could be influential in the hot plate model. 4. Use of animal models: Using animal models as representatives of humans always comes with challenges. The results obtained from mice may not directly translate to humans. <p>These disadvantages can affect the credibility and generalizability of the study results, highlighting the need for further and more precise research.</p> <p>This research appears to have scientific value and publication potential for the following reasons:</p> <ol style="list-style-type: none"> 1. Therapeutic potential: The research findings indicate that dibenzylidene compounds, especially D6, D7, and D10, have significant analgesic potential that could be used as new options in pain management. These results have been clearly demonstrated in hot plate and tail flick models. 2. Valid methods: The use of reliable experimental models such as the hot plate model and tail flick model to assess the analgesic potential of compounds enhances the credibility of the research. These models can effectively demonstrate the effects of drugs on pain sensation. 3. Precise data analysis: Laboratory data were analyzed using GraphPad Prism 10.2 software and two-way ANOVA test. These statistical methods helped provide accurate and reliable results, determining the significant level at $p < 0.05$. 4. Attention to ethical aspects: The study protocol was approved by the university's ethics committee, indicating adherence to ethical principles in the research. <p>Considering these factors, the research can be considered a valid and valuable study in the field of pharmacology and pain management, and potentially has the possibility of publication in scientific journals.</p>	

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PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

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