

Manuscript: “**Synthèse Et Caractérisation De La Structure Du [4-[(1HBenzo[D]Imidazol-1-Yl)Méthyl]- 1H-1,2,3-Triazol-1 Yl](Benzamido)Méthyl]Phospho nate De Diéthyle Par La Spectroscopie RMN 1D Et 2D**”

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Peer review:

Reviewer 1: Guenoun Farhate,
Moulay Ismail, Morocco

Reviewer 2: Mostafa El Ghoul,
Mohammed V University, Morocco

Reviewer 3: Bouzid Mohammed,
Algérie

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| | |
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| Reviewer Name: GUENOUN Farhate | |
| University/Country: Moulay Ismail Morocco | |
| Date Manuscript Received: 13 /10/2020 | Date Review Report Submitted: 23/10/2020 |
| Manuscript Title: Synthèse et caractérisation de la structure du ((4-(1H-benzo[d]imidazol-1-yl)-1H-1,2,3-triazol-1-yl) (benzamido)methyl) phosphonate dédiéthyle par la spectroscopie RMN 1D et 2D | |
| ESJ Manuscript Number: 1057/20 | |
| You agree your name is revealed to the author of the paper : Yes | |
| You approve, your name as a reviewer of this paper, is available in the "review history" of the paper : Yes | |
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Evaluation Criteria:

Please give each evaluation item a numeric rating on a 5-point scale, along with a thorough explanation for each point rating.

| <i>Questions</i> | <i>Rating Result</i> [Poor] 1-5 [Excellent] |
|--|---|
| 1. The title is clear and it is adequate to the content of the article. | 4 |
| The title is well suited to the topic, however the characterization term is not quite consistent with the content of the manuscript, I still prefer « Synthèse et étude spectrale RMN du ((4-(1H-benzo[d]imidazol-1-yl)-1H-1,2,3-triazol-1-yl) (benzamido)methyl) phosphonate dédiéthyle | |
| 2. The abstract clearly presents objects, methods and results. | 4 |
| The abstract is very explicit both in terms of methods and results. The objects were presented in a well-structured way. However, the critical study of NMR spectra carried out in this work is mentioned in a very timid manner in the abstract.. | |
| 3. There are few grammatical errors and spelling mistakes in this article. | 5 |
| The article does not present any significant grammatical and spelling errors | |
| 4. The study methods are explained clearly. | 5 |
| The study methods are appropriately described | |
| 5. The body of the paper is clear and does not contain errors. | 5 |
| The body of the paper is clear and is correctly written and does not require additional linguistic corrections | |
| 6. The conclusions or summary are accurate and supported by the content. | 4 |

| | |
|--|----------|
| Conclusion: The importance of the work lies in the synthesized molecule, so you must first talk about the importance of the elaborated structure and then about the effectiveness of the synthesis strategy followed | |
| 7. The references are comprehensive and appropriate. | 5 |
| Relevant references are cited appropriately | |

Overall Recommendation(mark an X with your recommendation) :

| | |
|--|----------|
| Accepted, no revision needed | |
| Accepted, minor revision needed | X |
| Return for major revision and resubmission | |
| Reject | |

Comments and Suggestions to the Author(s):

To assist the author(s) in revising his/her/their manuscript, please separate your remarks into two sections:

- (1) Suggestions, which would improve the quality of the paper but are not essential for publication.
- (2) Changes which must be made before publication

The experimental data reported in this manuscript include a lot of spectral information. Only a minor consideration that authors should address prior to publication.

The characterization by rmn of protons of the two ethyl groups, which have quite different coupling systems must be justified by an example from the literature.

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| | |
|---|-------------------------------|
| Reviewer Name: Mostafa El GHOUL | Email: |
| University/Country: Mohammed V University, Morocco | |
| Date Manuscript Received: November 25, 2020 | Date Review Report Submitted: |
| Manuscript Title: Synthèse et caractérisation de la structure du ((4-(1H-benzo[d]imidazol-1-yl)-1H-1,2,3-triazol-1-yl) (benzamido)methyl) phosphonate de diéthyle par la spectroscopie RMN 1D et 2D | |
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Evaluation Criteria:

Please give each evaluation item a numeric rating on a 5-point scale, along with a thorough explanation for each point rating.

| <i>Questions</i> | <i>Rating Result</i> [Poor] 1-5 [Excellent] |
|--|---|
| 1. The title is clear and it is adequate to the content of the article. | 4 |
| The title of the article is clear and it is adjusted to the content of the article. | |
| 2. The abstract clearly presents objects, methods and results. | 4 |
| The abstract clearly explains the objective, the 2D NMR spectroscopy method used and the results of this analysis. | |
| 3. There are few grammatical errors and spelling mistakes in this article. | 3 |
| Authors must make the corrections made by the reviewer in the final revised version | |
| 4. The study methods are explained clearly. | 4 |
| The 2D NMR spectroscopy data given is very good | |
| 5. The body of the paper is clear and does not contain errors. | 3 |
| The text requires grammatical and spelling correction (see attached file). | |

| | |
|---|----------|
| 6. The conclusions or summary are accurate and supported by the content. | 4 |
| The summary is clear, both in terms of methods and results. | |
| 7. The references are comprehensive and appropriate. | 4 |
| Appropriate references are adequately cited | |

Overall Recommendation(mark an X with your recommendation) :

| | |
|--|----------|
| Accepted, no revision needed | |
| Accepted, minor revision needed | X |
| Return for major revision and resubmission | |
| Reject | |

Comments and Suggestions to the Author(s):

To assist the author(s) in revising his/her/their manuscript, please separate your remarks into two sections:

- (1) Suggestions, which would improve the quality of the paper but are not essential for publication.

- (2) Changes which must be made before publication

The authors describe the synthesis of an interesting phosphonic amino acid derivative. The manuscript is interesting and reasonably well written. The 2D NMR spectroscopy data given were explicit. However, there are some issues that authors should address to improve and clarify their manuscript. The manuscript can be accepted after a minor revision.

- Authors must make the corrections made by the reviewer in the final revised version.
- The correct compound nomenclature should be used which must take into account the correct use of bracketing. I think it should be Diethyl [4-[(1*H*-benzo[d]imidazol-1-yl)methyl]-1*H*-1,2,3-triazol-1-yl](benzamido) methyl]phosphonate, with the H and d of 1*H* and [d] in italic font.
- In the scheme 1, the authors should give the full structure without using abbreviations

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Please respond within the appointed time so that we can give the authors timely responses and feedback.

NOTE: ESJ promotes peer review procedure based on scientific validity and technical quality of the paper (not perceived the impact). You are also not required to do proofreading of the paper. It could be recommended as part of the revision.

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| Reviewer Name: Bouzid Mohammed | |
| University/Country: Algérie | |
| Date Manuscript Received: 25 11 2020 | Date Review Report Submitted: 04 12 2020 |
| Manuscript Title: Synthèse et caractérisation de la structure du ((4-(1H-benzo[d]imidazol-1-yl)-1H-1,2,3-triazol-1-yl) (benzamido)méthyl) phosphonate diéthyle par la spectroscopie RMN 1D et 2D | |
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| You approve, this review report is available in the "review history" of the paper: Yes | |

Evaluation Criteria:

Please give each evaluation item a numeric rating on a 5-point scale, along with a thorough explanation for each point rating.

| <i>Questions</i> | <i>Rating Result</i> [Poor] 1-5 [Excellent] |
|---|---|
| 1. The title is clear and it is adequate to the content of the article. | |
| The title of the publication corresponds well to the work done | |
| 2. The abstract clearly presents objects, methods and results. | 4 |
| the author can develop more NMR in the abstract, he has good results | |
| 3. There are few grammatical errors and spelling mistakes in this article. | 4 |
| few grammatical errors | |
| 4. The study methods are explained clearly. | 5 |

| | |
|---|----------|
| The process methods is logical | |
| 5. The body of the paper is clear and does not contain errors. | 5 |
| <i>(Please insert your comments)</i> | |
| 6. The conclusions or summary are accurate and supported by the content. | 5 |
| <i>(Please insert your comments)</i> | |
| 7. The references are comprehensive and appropriate. | 5 |
| <i>(Please insert your comments)</i> | |

Overall Recommendation(mark an X with your recommendation) :

| | |
|--|----------|
| Accepted, no revision needed | |
| Accepted, minor revision needed | X |
| Return for major revision and resubmission | |
| Reject | |

Comments and Suggestions to the Author(s):

To assist the author(s) in revising his/her/their manuscript, please separate your remarks into two sections:

(1) Suggestions, which would improve the quality of the paper but are not essential for publication.

Le travail est important, il a un double intérêt:

- Educational teaching of 1D and 2D NMR see the three D
- Applied: in particular in pharmaceutical chemistry, physico-chemical controle

(2) Changes which must be made before publication

Two to three more lines at the end of your summary to bring out NMR as a technique and study.

I have the impression the organic synthesis suffocates the NMR in the summary

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