

MEDICINAL CHEMISTRY**Manuscript Evaluation Form**

Editor-in-Chief: Dr. Dimitra Hadjipavlou-Litina, Aristotle University of Thessaloniki, Thessaloniki, Greece

PAPER TITLE	Design, synthesis and biological activity evaluation of BACE1 inhibitors with antioxidant activity
AUTHOR(S) NAME	He-Min Li, Shao-Peng Yu, Tian-Yuan Fan, Yue Zhong, Ting Gu, Wen-Yu Wu, Nian-Guang Li

Sec. A: REFEREE'S ASSESSMENT*(cross as appropriate)*

Criterion	Excellent	Good	Fair	Poor
Originality of the topic	x			
Technical Quality	x			
Importance in its Field	x			
Style & Overall Representation		x		
Readily Understandable	x			
Suitability for the Journal	x			
Adequate Illustrations or Drawings	x			
English language		x		
Description	Yes	No	Comments/ Suggestions	
Does the title represent manuscript's contents?	x			
Is the Abstract accurate and concise?	x			
Are the approach/ methods properly described?	x			
Are the conclusions and interpretations sound?	x			
Are the references properly cited?	x			
Is this a new/ original/ contribution?	x			
Is it within the scope of the journal?	x			
Overall the Paper is Rated:	(Excellent, 9 ----- Poor) 10 9 8 7 6 5 4 3 2 1			

Sec. B: REFEREE'S RECOMMENDATIONS**OTHER SPECIFIC CRITICISMS**

Accept with minor changes	x	Imperfect style	x
Accept with major changes		Too long	
Reject in current form, but may be resubmitted		References incorrectly presented	
Reject, with no resubmission		Typographical and Grammatical errors	x

PAPER TYPE: Research article

Review article

Letter article

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Confidential Comments to the Editor (not for Transmission to Authors):**Comments for the Authors (continue on another sheet, if necessary):**

The presented paper is focused on synthesis of a new class of inhibitors of the proteolytic enzyme β -secretase (BACE1), with advanced inhibiting, antioxidant, physicochemical and biological activity, and their possible pharmaceutical application. This enzyme is very important as a target in therapeutic intervention, as it plays a central role in the synthesis of the pathogenic β -amyloid peptides ($A\beta$) in Alzheimer's disease (AD). The manuscript is of interest to the medicinal chemistry community and falls within the scope of the journal. I recommend publication in Medicinal Chemistry after some revision.

The entire manuscript should be formatted according to the style of the journal.

In Keywords BACE1 inhibitors is more suitable and should be replaced instead of BACE1.

The English language, grammar, spelling and punctuation should be improved at several places.

Overall representation should be improved at some places.

For example, the entire Table 1 should be placed at one page. The beginning of Table 1 should be moved to the next page (from page 3 to page 4). In the fourth column, IC_{50} , should be moved from the first to the second row of the table.

First two sentences below Table 1 should be placed above Table 1.

On page 9, the last subheading, or the name of compound should be moved to the next page 10.

FIELD OF EXPERTISE OF REFEREE: Materials and chemical technologies, nanotechnologies, biomedical engineering, chemistry

Name & Affiliation of referee: Tamara Jovanovic, Department of Biomedical Engineering, Faculty of Mechanical Engineering, University of Belgrade, Kraljice Marije 16, 11120 Belgrade, Serbia

Dr Tamara Jovanovic, November 7, 2018

SIGNATURE OF REFEREE / DATE

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