



SDI Review Form 1.6

Journal Name:	American Chemical Science Journal
Manuscript Number:	Ms_ACSJ_28201
Title of the Manuscript:	Synthesis and Biological Evaluation of Novel 4-Hydrazinyl-6-methyl-2-(alkylthio)pyrimidine Derivatives
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

	Reviewer's comment	Author's comment (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)
Compulsory REVISION comments	Synthesis and Biological Evaluation of Novel 4-Hydrazinyl-6-methyl-2-(alkylthio)pyrimidine Derivatives This is an original research paper in the field of the synthesis of Heterocyclic compounds and evaluation of their biological activity, which is a very important research field. The content of the paper is v good, and it presents routine synthesis of a series of pyrimidine derivatives. - The title of the paper should be changed since compounds 1,2,3,4, 7, 8, 9, 10, 17, 18, 19, 20 are not Hydrazinyl derivatives, 4-Hydrazinyl may be omitted from the title. - Compounds 5, 6 are hydrazines but not hydrazides as they have been described in the paper. - The starting material 2-mercapto-6-methylpyrimidine-4-ol should be presented in scheme 1, and the equation that indicates its change to 1 & 2. - The full names of the compounds should be indicated only in the experimental part, but not in the discussion part.	Dear reviewer, we thank you for the detailed analysis of this article, your comments and suggestions on it. - We have changed the title in accordance of your comment: "Synthesis of Novel Derivatives on the Basis of 4-Hydrazinyl-6-methyl-2-(alkylthio)pyrimidines and Their Preliminary Biological Evaluation". - We have done appropriate corrections on page 5. 2-mercapto-6-methylpyrimidine-4-ol is a known compound and was described in the literature. We have not included it in the scheme, not to complicate it. The synthesis of compounds 1, 2 is described in detail in sections 2 and 3. - Many journals require the names of the compounds in the discussion section. If the



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	• Nitrogen atom (NH) should be added to the structure of compounds 13,14,15,16 in scheme 2 because these compounds are carboxamides and their thio derivatives. • It is preferred to write Phenylisocyanate and thio derivative as one word. • For R1 in scheme 3 indicate (a) for CH₃, (b) for C₃H₇ and so on. • The manuscript needs proof editing (just for example line 55 page 1 should be corrected to an internal, and many many other such mistakes.	Editor supposes it necessary to remove these names, we will make the appropriate changes in the text. • We have changed the structures of compounds 13-16. We are very grateful that you have noticed our technical error. • It is done • It is done
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		