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**Synthesis and biological evaluation of a new substituted 4-carboxy benzamide derivative to provide new therapeutic strategy for diabetes mellitus****Sandhya Jain and Ashish Patel**  
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Diabetes mellitus is a major affective disorder, common in the general population. Worldwide there is a renewed interest in the development of an effective medicine against the most dreaded diseases. Earlier the class of phenyl substituted carboxylic acids and benzamide derivatives found to be good candidate for inhibitors of various PTPs, especially as PTP-1B. In the present study we propose to develop a new substituted 4-carboxy benzamide derivative, these can be prepared and can be checked for antidiabetic activity. The experimental work has been divided into two main parts; synthesis work and biological studies. Therefore this proves the inhibition of PTPase and activation of insulin receptor and downstream functions could provide new therapeutic strategy for diabetes mellitus.

**Biography**

Sandhya Jain is currently working in Parul Institute of Pharmacy as an Assistant Professor. She has total 8 years of experience in various fields and also she had worked in IPR division in Delhi. Currently she is pursuing her PhD. She has life time Membership for APTI and is a registered Pharmacist. During Post-graduation degree she has received the Scholarship from AICTE, Delhi. She also did MBA and served as an Administrator in reputed organization.

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