Manuscript ID : 00001-69771

Source ID : 00000567

International Journal of Modern Pharmaceutical Research

Volume 3, Issue 1, February 2019, Pages 41-47, Page Count - 7

SYNTHESIS AND ANTIOXIDANT ACTIVITY OF INDOLIZINE DERIVATIVES

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Abstract

A novel indolizine derivatives were synthesized by using indolizine 1- carboxylate and substituted 1,3,4-thiadiazoles. Indolizine 1-carboxylate were synthesized by using methyl acrylate and pyridinium halide in presence of manganese dioxide, triethylamine and toluene as a solvent. Substituted thiadiazole were prepared by reacting thiosemicarbazide with substituted carboxylic acid. Synthesized derivatives were screened for scavenging activity against 1,1 (DPPH). The results have showed that compound (4a) exhibited reasonable antioxidant activity. The structure of all the synthesized compounds were established by IR, NMR and Mass spectral data.

Author Keywords

Indolizine, Thiadiazole, 1, 3 cycloaddition, Antioxidant

Acknowledgement

We wish to thank RGUHS, Advanced Research Grant, Bengaluru for financial support of this project.

ISSN Print:
Source Type: Journals
Publication Language: English
Abbreviated Journal Title: IJMPR
Publisher Name: Society for Advance Healthcare Research
Major Subject: Life Sciences

Subject area: Pharmaceutical Science

ISSN Online: 2319-5878
Document Type: Journal Article
DOI:
Access Type: Open Access
Resource Licence: CC BY-NC
Subject Area classification: Pharmacology, Toxicology and Pharmaceutics
Source: SCOPEDATABASE

Reference