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New 3-2-hydroxyphenyl-7-methyl-dihydropyrano benzoxazin-4 useful for providing wide spectrum antibacterial activity against multi-drug resistant bacteria, and bacteria causing respiratory tract infection including Escherichia coli

Patent Number(s): IN201403030-14**Inventor(s):** ALARFAJ A A A, ALSHATWI A A, MURUGAN A M, PANDIYAN K R, PERIASAMY V S, SHANTHI S**Patent Assignee Name(s) and Code(s):** PANDIYAN K R(PAND-Individual)

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Derwent Primary Accession Number: 2014-P67290 [48]

Abstract: NOVELTY - A 3-2-hydroxyphenyl-7-methyl-dihydropyrano benzoxazin-4-one for providing wide spectrum activity against multi-drug resistant bacteria, beta -lactamase enzyme producing bacteria and bacteria causing respiratory tract infection, is new. The molecular Weight of the 3-2-hydroxyphenyl-7-methyl-dihydropyrano benzoxazin-4-one is 309.316. The physiochemical properties of the 3-2-hydroxyphenyl-7-methyl-dihydropyrano benzoxazin-4-one is characterized by using UV-visible, Fourier transform infrared spectroscopy (FTIR), and high resolution mass spectrum and NMR spectroscopic data.

USE - The 3-2-hydroxyphenyl-7-methyl-dihydropyrano benzoxazin-4-one is useful for providing wide spectrum antibacterial activity against multi-drug resistant bacteria, beta -lactamase enzyme producing bacteria and bacteria causing respiratory tract infection, is new. The bacteria include Escherichia coli, Proteus mirabilis, Klebsiella pneumonia, Pseudomonas aeruginosa and methicillin resistant Staphylococcus aureus (claimed).

[Show Documentation Abstract](#)**International Patent Classification:** A61K-000/00**Derwent Class Code(s):** B02 (Fused ring heterocyclics)**Derwent Manual Code(s):** B06-E05; B14-A01; B14-A01X; B14-D07; B14-K01**Patent Details:**

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
IN201403030-14	08 Aug 2014	A61K-000/00	201548	Pages: 23	English

Application Details:

IN201403030-14	INCH03030	23 Jun 2014
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Priority Application Information and Date:

INCH03030	23 Jun 2014
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