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### Patent Search

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| Invention Title         | 1,3,4-OXADIAZOLE-2(3H)-THIONE DERIVATIVES AS ANTICANCER AGENTS |
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#### Abstract:

The present invention relates to 1,3,4-oxadiazole-2(3H)-thione derivatives namely (5-(4-nitrophenyl)-2-thioxo-1,3,4-oxadiazol-3(2H)-yl)(phenyl)methanone; (4-methoxyphenyl)-2-thioxo-1,3,4-oxadiazol-3(2H)-yl)methanone; (2,4-dichlorophenyl)(5-(4-nitrophenyl)-2-thioxo-1,3,4-oxadiazol-3(2H)-yl)methanone; (4-fluorophenyl)(5-(4-nitrophenyl)-2-thioxo-1,3,4-oxadiazol-3(2H)-yl)methanone; (4-nitrophenyl)(5-(4-nitrophenyl)-2-thioxo-1,3,4-oxadiazol-3(2H)-yl)methanone as anticancer compounds.

#### Complete Specification

Claims: We Claim,

1. An anti-cancer 1,3,4- Oxadiazole 2(3H)-thione derivatives of formula I and their pharmaceutically acceptable salts thereof,

Formula 1

wherein R is selected from the group comprising:

phenyl;  
 4-methoxyphenyl;  
 2,4-dichlorophenyl;  
 4-fluorophenyl; and  
 4-nitrophenyl.

2. The compound as claimed in claim 1, wherein the compound is derivative of Formula I, wherein the compound is selected from the group:

a). (5-(4-nitrophenyl)-2-thioxo-1,3,4-oxadiazol-3(2H)-yl)(phenyl)methanone

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| (32) Priority Date                            | :NA            | Address of Applicant :Rajarambapu College of Pharmacy, |
| (33) Name of priority country                 | :NA            | Kasegaon Dist Sangli 415404 Maharashtra India          |
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The present invention relates to 1,3,4-oxadiazole-2(3H)-thione derivatives namely (5-(4-nitrophenyl)-2-thioxo-1,3,4-oxadiazol-3(2H)-yl)(phenyl)methanone; (4-methoxyphenyl)(5-(4-nitrophenyl)-2-thioxo-1,3,4-oxadiazol-3(2H)-yl)methanone; (2,4-dichlorophenyl)(5-(4-nitrophenyl)-2-thioxo-1,3,4-oxadiazol-3(2H)-yl)methanone; (4-fluorophenyl)(5-(4-nitrophenyl)-2-thioxo-1,3,4-oxadiazol-3(2H)-yl)methanone; (4-nitrophenyl)(5-(4-nitrophenyl)-2-thioxo-1,3,4-oxadiazol-3(2H)-yl)methanone as anticancer compounds.

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