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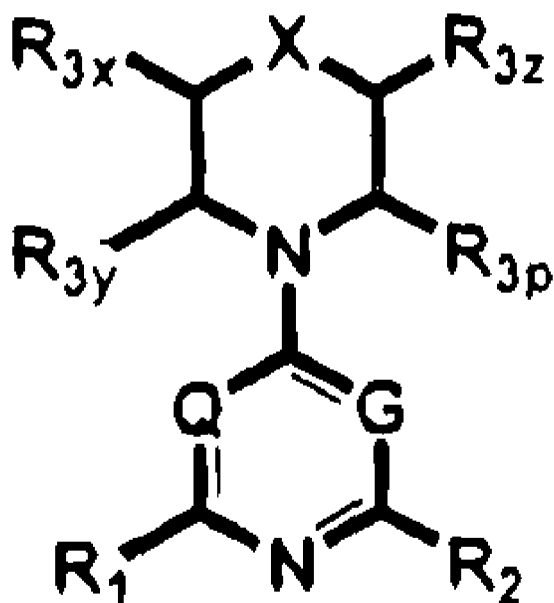
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(54) Title: TRIAZINE, PYRIMIDINE AND PYRIDINE ANALOGS AND THEIR USE AS THERAPEUTIC AGENTS AND DIAGNOSTIC PROBES



(I)

(57) Abstract: The invention relates to novel therapeutic agents and diagnostic probes. The invention also relates to phosphoinositide 3-kinase (PI3K) and mammalian target of rapamycin (mTOR) inhibitor triazine, pyrimidine and pyridine-based compounds of Formula (I), their stereoisomers, geometric isomers, tautomers, solvates, metabolites, N-oxide derivatives, pharmaceutically acceptable salts, and prodrugs thereof compositions of the new compounds, either alone or in combination with at least one additional therapeutic agent, with a pharmaceutically acceptable carrier; and uses of the new compounds, either alone or in combination with at least one additional therapeutic agent, for treating disorders mediated by lipid kinases. Methods of using compounds of Formula (I) for *in vitro*, *in situ*, and *in vivo* diagnosis, prevention or treatment of such disorders in mammalian cells, or associated pathological conditions, are disclosed. (Formula I)



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