Title	Novel 4-Heteroaryl-Antipyrines as DPP-IV Inhibitors,
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Abstract

In this article, the sulphone derivative based on prazole moiety 1 was subjected to several reaction with different aromatic amines in the presence of DMFDMA in DMF under microwave irradiation that led to construction of various heterocyclic systems either isolated or fused such as pyrazole, triazole, pyridine and pyrimidine. Compound 1 was attacked with hydrazine and phenylhydrazine to deliver new pyrazole systems. When compound 1 reacted with DMFDMA and then the product combined with different active methylene compounds as malononitrile, ethyl acetoacetate and others, a pyridine ring was constructed in the presence of ammonium acetate and acetic acid. The prepared compounds were tested as DPP-IV inhibitors and showed good activity.