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Design and synthesis of structurally identical coumarinotriazoles as cytotoxic and antimicrobial agents

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ABSTRACT

Novel coumarinotriazoles have been synthesized with excellent yield by 1,3-cycloaddition reaction of substituted coumarin azides with active methylene compounds using sodium hydride. Synthesized compounds were screened for their *in vitro* anticancer activity against HEP-G2 and MCF-7 cell lines using Cisplatin as reference drug. Most of the compounds from series **3** and **4** are highly active against MCF-7 with IC₅₀ value ranges from **1.56** to **6.25** μg/mL. Among,

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