Synthesis of Sulofenur Analoges as Antitumour Agents: Part II. Khairia M. Youssef, Ebtihal Al-Abdullah and Hamad El-Khamees; Med. Chem. Res.,11:9, 481-503, 2003.

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Abstract

A new series of N-aryl-N□-heteroaryl or N,N□-diheteroaryl sulfonylurea or sulfonylthiourea has been synthesized using three different methods. All the intermediates were prepared in the lab including heteroarylsulfonyl chlorides, heteroarylsulfonamides and aryl or heteroarylureido derivatives. Structural elucidation of the newly synthesized compounds were based on elementary analysis, IR, 1H & 13C NMR and Mass spectra. The antitumor screening of the prepared compounds were performed at the National Cancer Institute (NCI) Bethesda, Maryland, USA. Compounds N-(3-chlorophenyl)-N□-(6-methyl-uracil-2-sulfonyl)urea (38) with GI50, TGI, LC50 (MG MID) values of 66.07, 83.17, 93.32 □M, respectively is the most active compounds in this study.

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