

other 6-membered heterocycles (with 3 or more heteroatoms)

R 0670

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Antitumor Imidazotetrazines. Part 36. Conversion of 5-Aminoimidazole-4-carboxamide to Imidazo[5,1-d][1,2,3,5]tetrazin-4(3H)-ones and Imidazo[1,5-a][1,3,5]triazin-4(3H)-ones Related in Structure to the Antitumor Agents Temozolomide and Mitozolomide.

— In order to get more information about the mode of action of temozolomide, compounds such as (III), (VII), and (IX) are prepared via different routes. In a decomposition experiment monitored by NMR it is shown that compound (VIIb) loses ethylene. This may be an explanation for the weaker antitumor property of (VIIb) compared to temozolomide ((VII), R: -Me). — (WANG, Y.; WHEELHOUSE, R. T.; ZHAO, L.; LANGNEL, D. A. F.; STEVENS, M. F. G.; J. Chem. Soc., Perkin Trans. 1 [old] (1998) 10, 1669-1675; Dep. Pharm. Sci., Univ. Nottingham, Nottingham NG7 2RD, UK; EN)

