Accepted Manuscript

Synthesis, structure elucidation, DNA-PK and PI3K and anti-cancer activity of 8- and 6-aryl-substituted-1-3-benzoxazines

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PII: S0223-5234(16)30042-3

DOI: 10.1016/j.ejmech.2016.01.042

Reference: EJMECH 8332

To appear in: *European Journal of Medicinal Chemistry*

Received Date: 27 November 2015

Revised Date: 21 January 2016

Accepted Date: 22 January 2016

Please cite this article as: R. Morrison, J.M.A. Al-Rawi, I.G. Jennings, P.E. Thompson, M.J. Angove, Synthesis, structure elucidation, DNA-PK and PI3K and anti-cancer activity of 8- and 6-aryl-substituted-1-3-benzoxazines, *European Journal of Medicinal Chemistry* (2016), doi: 10.1016/j.ejmech.2016.01.042.

Graphical Abstract

Synthesis, structure elucidation, DNA-PK and PI3K and some anti-cancer activity of 8- and 6-aryl-substituted-1-3-benzoxazines.

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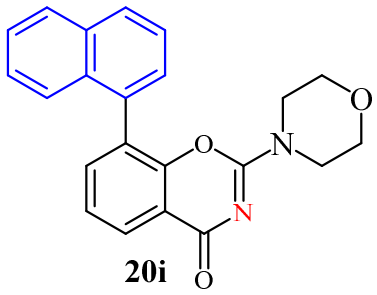
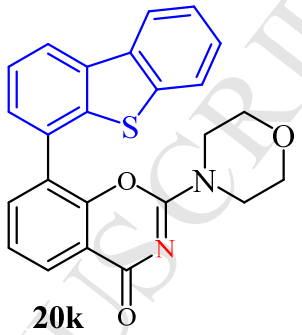


20i

DNA-PK IC_{50} = 20.30µM
PI3K β IC_{50} = 5.0µM
PI3K δ IC_{50} = 0.64µM
Renal Cancer (A498) %GI at 10 µM = 92



20k

DNA-PK IC_{50} = 0.034µM
PI3K β IC_{50} = 5.8µM
PI3K δ IC_{50} = 8.5µM