

## SUPPLEMENTARY DATA

# Synthesis, cyclooxygenases inhibition activities and interactions with BSA of N-substituted 1H-pyrrolo[3,4-c]pyridine-1,3(2H)-diones derivatives

Edward Krzyżak<sup>1\*</sup>, Dominika Szkatuła<sup>2</sup>, Benita Wiatrak<sup>3</sup>, Tomasz Gębarowski<sup>3</sup>, Aleksandra Marciniak<sup>1</sup>

<sup>1</sup> Department of Inorganic Chemistry, Wrocław Medical University, uBorowska 211a, 50-556 Wrocław, Poland; edward.krzyzak@umed.wroc.pl; aleksandra.marciniak@umed.wroc.pl

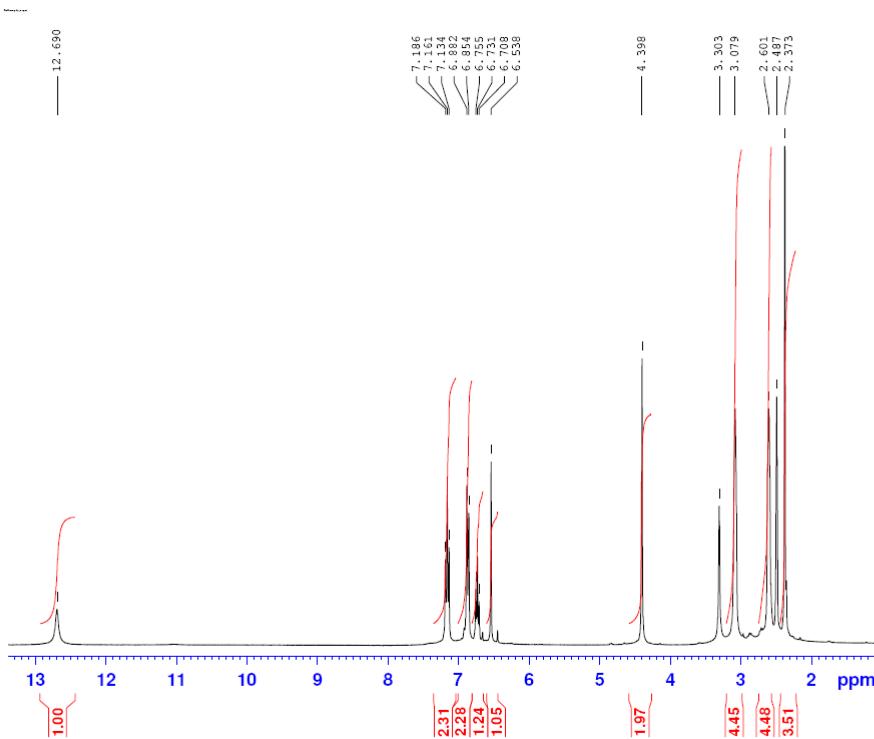
<sup>2</sup> Department of Medicinal Chemistry , Wrocław Medical University, Borowska 211, 50-556 Wrocław, Poland; dominika.szkatula@umed.wroc.pl

<sup>3</sup> Department of Basic Medical Sciences, Wrocław Medical University, Borowska 211, 50-556 Wrocław, Poland; benita.wiatrak@umed.wroc.pl; tomasz.gebarowski@umed.wroc.pl

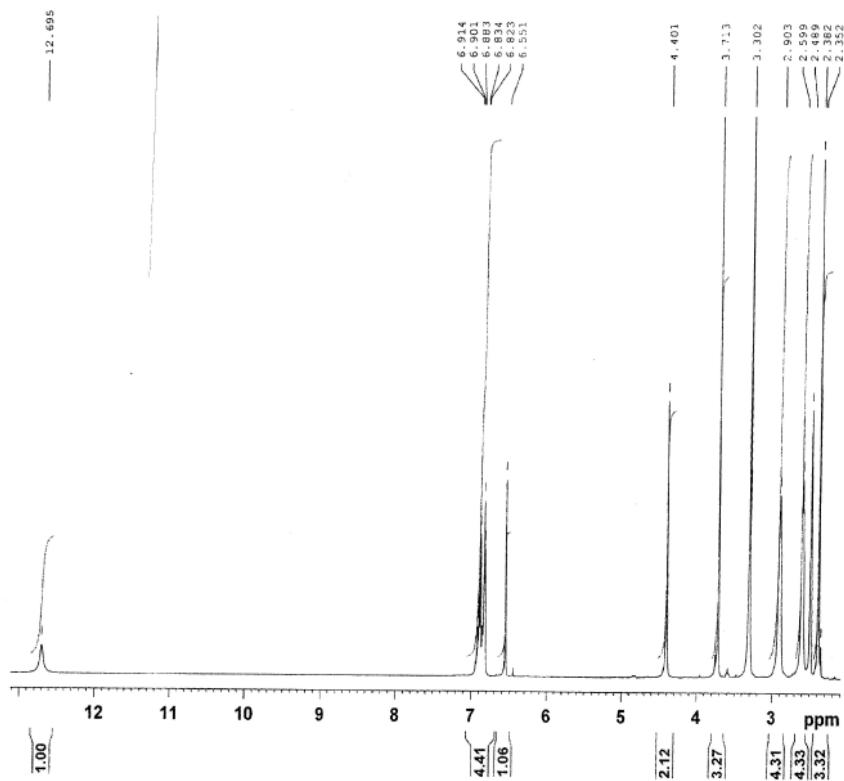
\* Correspondence: edward.krzyzak@umed.wroc.pl

## NMR spectra

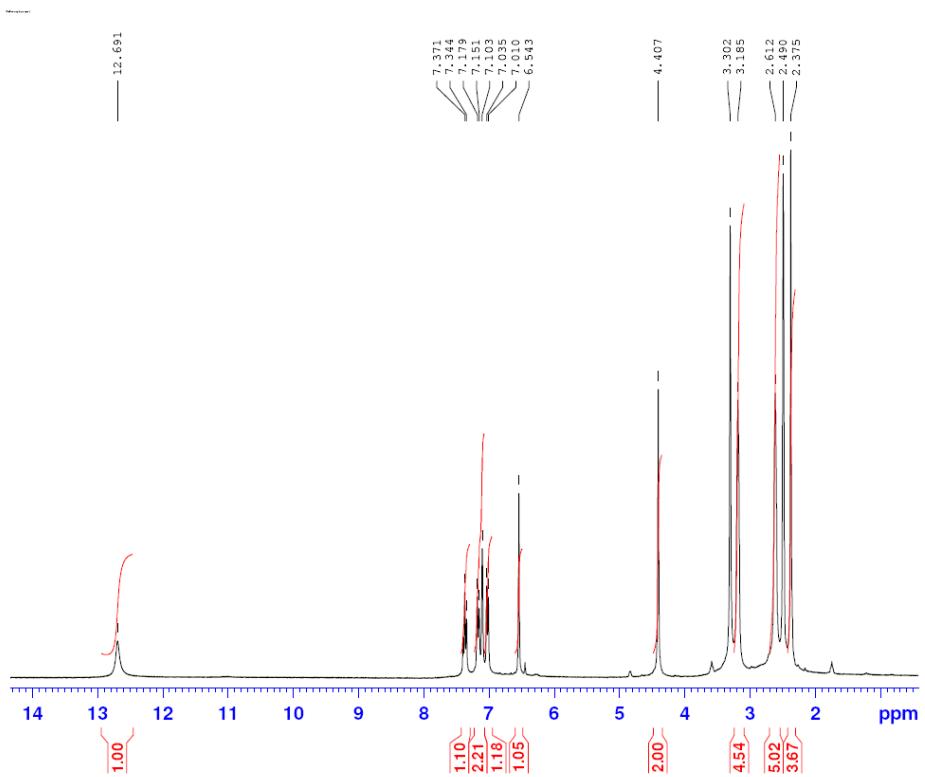
Compound A: - 5,6-dimethyl-4-oxo-2-[(4-phenyl-1-piperazinyl)methyl]-1H-pyrrolo[3,4-c]pyridine-1,3(2H)-dione



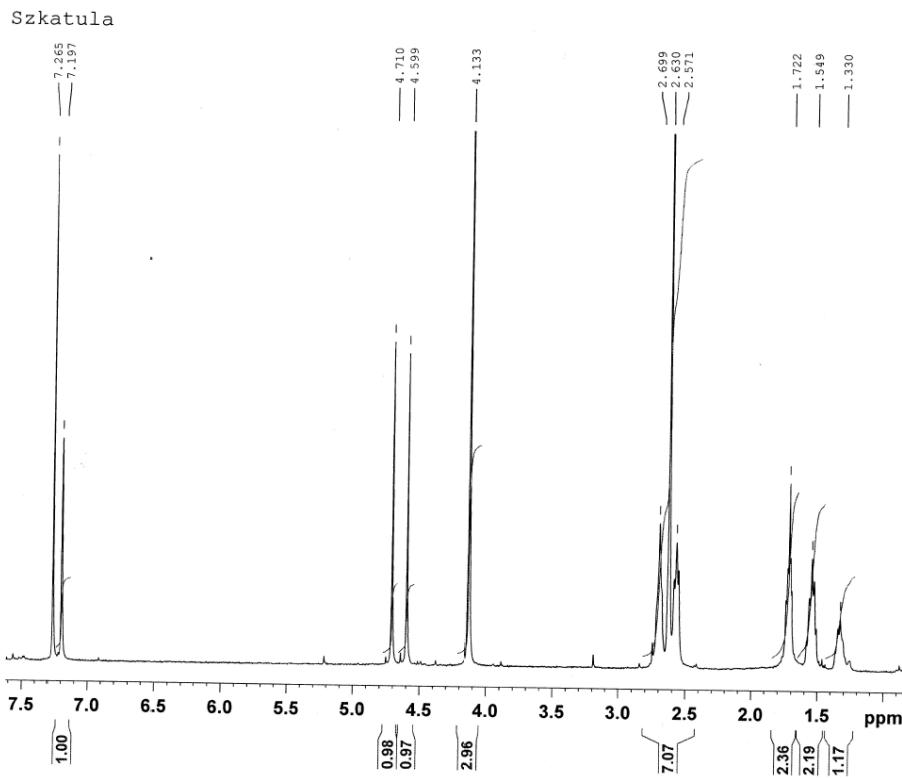
Compound B: - 5,6-dimethyl-4-oxo-2-[4-(3-trifluormethyl)phenyl-1-piperazinyl)methyl]-1H-pyrrolo[3.4-c]pyridine-1,3(2H)-dione



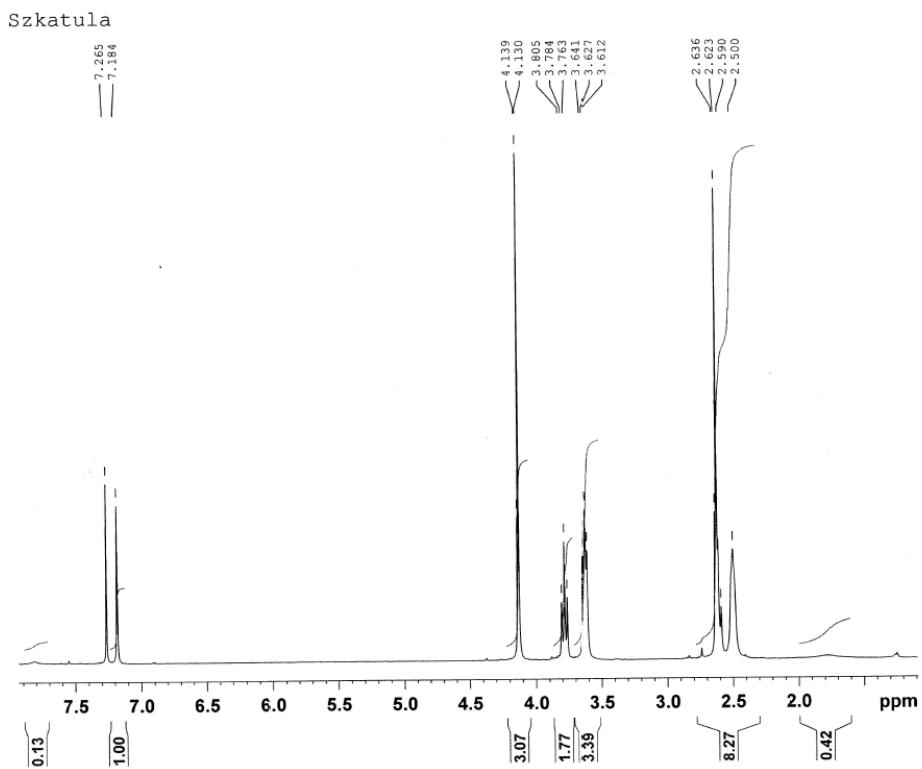
**Compound C:** - 5,6-dimethyl-4-oxo-2-[4-(2-methoxy)phenyl-1-piperazinyl)methyl]-1H-pyrrolo[3.4-c]pyridine-1,3(2H)-dione



**Compound D:** - 4-Methoxy-N-[1-(N-pyrrolidine)-methyl]-6-methyl-1H-pyrrolo[3.4-c]pyridine-1,3(2H)-dione



Compound E: - 4-Methoxy-N-[2-(N-morpholine)-ethyl]-6-methyl-1H-[pyrrolo[3.4-c]pyridine-1,3(2H)-dione



Szkatula

