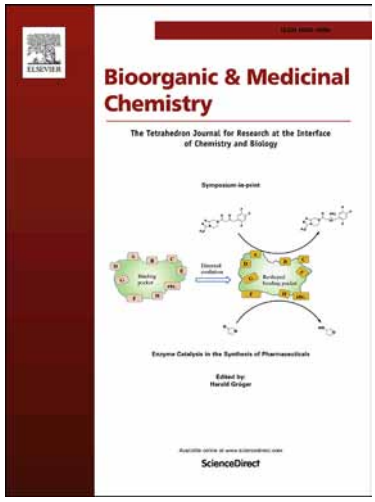
Accepted Manuscript



Synthesis and biological evaluation of novel heteroring-annulated pyrrolino-tetrahydroberberine analogues as antioxidant agents

Giacomo Mari, Simona Catalani, Elena Antonini, Lucia De Crescentini, Fabio Mantellini, Stefania Santeusanio, Paolo Lombardi, Antonella Amicucci, Serafina Battistelli, Serena Benedetti, Francesco Palma

PII: S0968-0896(18)31181-7
DOI: https://doi.org/10.1016/j.bmc.2018.08.038
Reference: BMC 14525

To appear in: *Bioorganic & Medicinal Chemistry*

Received Date: 27 June 2018
Revised Date: 28 August 2018
Accepted Date: 30 August 2018

Please cite this article as: Mari, G., Catalani, S., Antonini, E., De Crescentini, L., Mantellini, F., Santeusanio, S., Lombardi, P., Amicucci, A., Battistelli, S., Benedetti, S., Palma, F., Synthesis and biological evaluation of novel heteroring-annulated pyrrolino-tetrahydroberberine analogues as antioxidant agents, *Bioorganic & Medicinal Chemistry* (2018), doi: https://doi.org/10.1016/j.bmc.2018.08.038

Synthesis and biological evaluation of novel heteroring-annulated pyrrolino-tetrahydroberberine analogues as antioxidant agents.

Giacomo Mari[a], Simona Catalani[b], Elena Antonini[c], Lucia De Crescentini[a], Fabio Mantellini[a], Stefania Santeusanio[a], Paolo Lombardi[d], Antonella Amicucci[c], Serafina Battistelli[b], Serena Benedetti*[b], Francesco Palma*[c].

[a]Section of Organic Chemistry and Organic Natural Products, Department of Biomolecular Sciences, University of Urbino "Carlo Bo", Via I Maggetti 24, 61029 Urbino, Italy.

[b]Section of Clinical Biochemistry and Molecular Genetics, Department of Biomolecular Sciences, University of Urbino "Carlo Bo", Via Ottaviano Ubaldini 7, 61029 Urbino, Italy.

[c]Section of Biochemistry and Molecular Biology, Department of Biomolecular Sciences, University of Urbino "Carlo Bo", Via Saffi 2, 61029 Urbino, Italy.

[d]Naxospharma, Via Giuseppe di Vittorio 70, 20026 Novate Milanese, Italy.

***Corresponding authors:**

Serena Benedetti

Section of Clinical Biochemistry and Molecular Genetics,

Department of Biomolecular Sciences, University of Urbino "Carlo Bo",

Via Ottaviano Ubaldini, 5 – 61029 Urbino (PU), Italy

Tel/Fax +39 0722 304623/304625 – Mail: serena.benedetti@uniurb.it

Francesco Palma

Section of Biochemistry and Molecular Biology,

Department of Biomolecular Sciences, University of Urbino "Carlo Bo",

Via Aurelio Saffi, 2 – 61029 Urbino (PU), Italy

Tel: +39 0722 303801 – Mail: francesco.palma@uniurb.it