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Design, synthesis and biological evaluation of piperazinyl- β -carbolinederivatives as anti-leishmanial agents

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ACCEPTED MANUSCRIPT

Design, synthesis and biological evaluation of (1-phenyl-9*H*-pyrido[3,4-*b*]indol-3-yl)(4-phenylpiperazin-1-yl)methanone derivatives as anti-leishmanial agents

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Graphical Abstract

Compound **7e**, activity against *L. infantum* $EC_{50} = 2.89 \pm 0.34 \mu M$ (Promastigoes) $= 2.80 \pm 0.13 \mu M$ (Axenic amastigotes)

Compound **7k**, activity against *L. donovani* $EC_{50} = 3.47 \pm 0.17 \mu M$ (Promastigoes) $= 2.80 \pm 0.10 \mu M$ (Axenic amastigotes) $= 4.00 \pm 0.60 \mu M$ (Intracellular amastigotes)

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