

The synthesis of thiophenic compounds, previously identified in *Tagetes patula*, revealed that 4-(5-hydroxy-2-methyl-2-phenyl-1,3-dioxol-5-yl)but-3-yn-1-ol, or simply Thio1, could be classified as a potential GluCl ligand, justifying the promising results observed in the anthelmintic assays. Thio1, has a pronounced in vitro anthelmintic effect against *Haemonchus contortus*, showing 100% efficacy in the egg hatch and larval development tests presenting $EC_{50} = 0.1731 \text{ mg.mL}^{-1}$ and $EC_{50} = 0.3243 \text{ mg.mL}^{-1}$, respectively.