

# Accepted Manuscript

Structure-activity relationship studies and pharmacological characterization of N<sup>5</sup>-heteroarylalkyl-substituted-2-(2-furanyl)thiazolo[5,4-*d*]pyrimidine-5,7-diamine-based derivatives as inverse agonists at human A<sub>2A</sub> adenosine receptor



Flavia Varano, Daniela Catarzi, Fabrizio Vincenzi, Matteo Falsini, Silvia Pasquini, Pier Andrea Borea, Vittoria Colotta, Katia Varani

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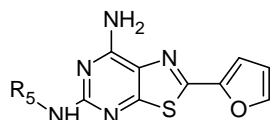
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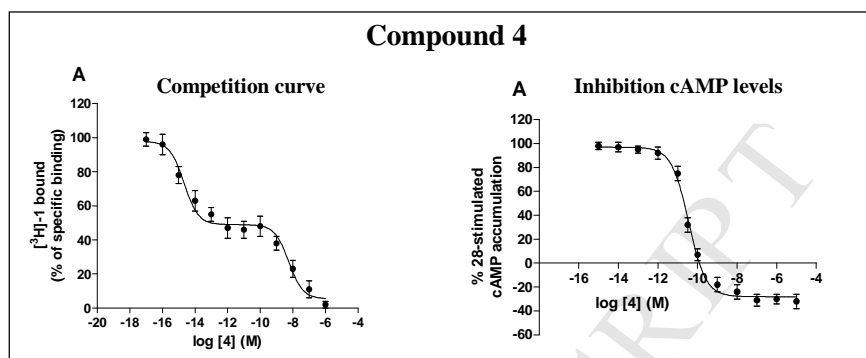
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## Graphical abstract



- 4** R<sub>5</sub> = CH<sub>2</sub>-(2-thienyl)  
**5** R<sub>5</sub> = CH<sub>2</sub>-(2-furanyl)  
**6** R<sub>5</sub> = CH<sub>2</sub>-(3-pyridyl)  
**11** R<sub>5</sub> = CH<sub>2</sub>CH<sub>2</sub>-(2-thienyl)

hA<sub>2A</sub> KH = 10.6-217 fM  
 KL = 0.68-18 nM



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