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

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

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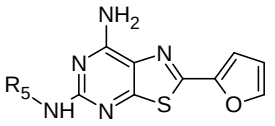
Graphical abstract



4 $R_5 = CH_2$-(2-thienyl)
5 $R_5 = CH_2$-(2-furanyl)
6 $R_5 = CH_2$-(3-pyridyl)
11 $R_5 = CH_2CH_2$-(2-thienyl)

hA_{2A} KH = 10.6-217 fM
KL = 0.68-18 nM