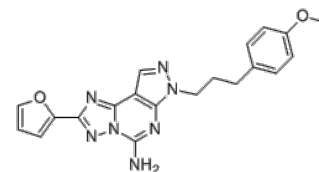


Product Name : SCH-442416
Cat. No. : PC-20110
CAS No. : 316173-57-6
Molecular Formula : C₂₀H₁₉N₇O₂
Molecular Weight : 389.42
Target : Adenosine Receptor
Solubility : 10 mM in DMSO



Biological Activity

SCH-442416 (SCH442416) is a potent, selective and brain-penetrant antagonist of adenosine A_{2A} receptor (**A_{2A}R**) with K_i 0.048 nM and 0.5 nM for human and rat A_{2A}R, respectively.

SCH-442416 displays >23000-fold selectivity over A₁R, A_{2B}R, and A₃R (K_i=1111, 10000, and 10000 nM, respectively).

SCH 442416 (10 μM) attenuates adenosine-mediated and A_{2A}R agonist-induced arteriole dilation.

SCH-442416 (0.017 mg/kg; i.p.) completely abrogates the CGS-21680-induced decrease in skeletal muscle injury.

References

- Todde S, et al. *J Med Chem.* 2000 Nov 16;43(23):4359-62.
Rahimian R, et al. *Eur J Pharmacol.* 2010 Dec 15;649(1-3):376-81.
Kumar TS, et al. *Bioorg Med Chem Lett.* 2011 May 1;21(9):2740-5.
Orrú M, et al. *Neuropharmacology.* 2011 Oct-Nov;61(5-6):967-74.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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