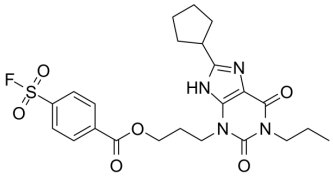
FSCPX

Cat. No.:	HY-116042
CAS No.:	156547-56-7
Molecular Formula:	$C_{23}H_{27}FN_4O_6S$
Molecular Weight:	506.55
Target:	Adenosine Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	FSCPX is a potent and selective irreversible antagonist of A_1 adenosine receptor (A_1AR), with low nanomolar potency for binding to the A_1AR. FSCPX could modify the effect of NBTI, a nucleoside transport inhibitor, by reducing the interstitial adenosine level in the guinea pig atrium[1][2].
IC_{50} & Target	A1AR[1]
In Vitro	FSCPX irreversibly blocks the binding of [^{3}H]-8-cyclopentyl-1,3dipropylxanthine ([^{3}H]DPCPX), with an IC_{50} of 11.8±3.2 nM in DDT_1 MF2 cells[1]. FSCPX (20 μM; 48 h) attenuates protection from necrosis and apoptosis in A1AR-overexpressing LLC-PK1 cells[3]. FSCPX (2-20 μM; 48 h) reverses the upregulation of HSP27 mRNA and protein in A1AR-overexpressing LLC-PK1 cells without an effect on the mRNA or protein for HSP70[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Beauglehole AR, et, al. New irreversible adenosine A(1) antagonists based on FSCPX. Bioorg Med Chem Lett. 2002 Nov 4; 12(21): 3179-82.

[2]. Erdei T, et, al. FSCPX, a Chemical Widely Used as an Irreversible A_1 Adenosine Receptor Antagonist, Modifies the Effect of NBTI, a Nucleoside Transport Inhibitor, by Reducing the Interstitial Adenosine Level in the Guinea Pig Atrium. Molecules. 2018 Aug 30; 23(9):2186.

[3]. Lee HT, et, al. Renal tubule necrosis and apoptosis modulation by A1 adenosine receptor expression. Kidney Int. 2007 Jun;71(12):1249-61.

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