

Product Data Sheet

Product Name: FSCPX
Cat. No.: GF11322

Chemical Properties

Cas. No. 156547-56-7

Formula C₂₃H₂₇FN₄O₆S M.Wt 506.55

Solubility DMSO : 50 mg/mL (98.71 mM); ultrasonic and warming and heat to 60°C) Storage 2-8°C, sealed storage, away from moisture

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

FSCPX is a potent and selective irreversible antagonist of A1 adenosine receptor (A1AR), with low nanomolar potency for binding to the A1AR. FSCPX could modify the effect of NBTI, a nucleoside transport inhibitor, by reducing the interstitial adenosine level in the guinea pig atrium.

FSCPX irreversibly blocks the binding of [³H]-8-cyclopentyl-1,3dipropylxanthine ([³H]DPCPX), with an IC₅₀ of 11.8 ± 3.2 nM in DDT₁ MF2 cells^[1].

Caution: Product has not been fully validated for medical applications. For research use only.

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FSCPX (20 μ M; 48 h) attenuates protection from necrosis and apoptosis in A1AR-overexpressing LLC-PK1 cells^[3].

FSCPX (2-20 μ M; 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].

[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 A₁ 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 3

[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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