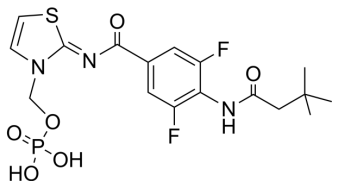
Lu AA47070

Cat. No.:	HY-14408
CAS No.:	913842-25-8
Molecular Formula:	$C_{17}H_{20}F_2N_3O_6PS$
Molecular Weight:	463.39
Target:	Adenosine Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Lu AA47070 is a phosphonooxymethylene prodrug of a potent and selective Adenosine A2A receptor antagonist. Lu AA47070 reverses the motor and motivational effects produced by dopamine D2 receptor blockade[1][2].

In Vivo

Lu AA47070 (3.75, 7.5, 15, 30 mg/kg; i.p.) reverseS the tremulous jaw movements, catalepsy, and locomotor suppression induced by subchronic administration of the D2 antagonist pimozide (1.0 mg/kg IP)[2].

Pharmacokinetic Parameters of Lu AA47070 in Sprague-Dawley rats[1].

Compd	dose (mg/kg)	AUC(ng*h/L)	T_{max} (h)	C_{max} (ng/mL)	F (%)
32	1.5	2.9±0.7	0.5±0.1	869±68	55±13
32	15	35±3.0	0.4±0.2	6413±281	66±6

Sprague-Dawley rats, 1.5, 15 mg/kg po[1]

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Sprague Dawley rats[2]
Dosage:	3.75, 7.5, 15, 30 mg/kg
Administration:	I.p.
Result:	Reversed the tremulous jaw movements, catalepsy, and locomotor suppression induced by subchronic administration of the D2 antagonist pimozide (1.0 mg/kg IP).

REFERENCES

[1]. Collins LE, et al. The novel adenosine A2A antagonist Lu AA47070 reverses the motor and motivational effects produced by dopamine D2 receptor blockade. Pharmacol Biochem Behav. 2012 Jan;100(3):498-505.

[2]. Discovery of Phosphoric Acid Mono-{2-[(E/Z)-4-(3,3-dimethyl-butyrylamino)-3,5-difluoro-benzoylimino]-thiazol-3-ylmethyl} Ester (Lu AA47070): A

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