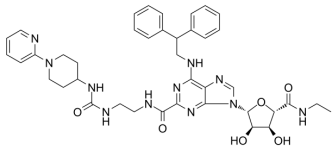
UK-432097

Cat. No.:	HY-107046
CAS No.:	380221-63-6
Molecular Formula:	$C_{40}H_{47}N_{11}O_6$
Molecular Weight:	777.87
Target:	Adenosine Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	UK-432097 is a highly potent and selective A_{2A}AR agonist with a pK_i of 8.4 for human A_{2A}AR. UK-432097 has anti-inflammatory and anti-aggregatory properties. UK-432097 has the potential for COPD (Chronic Obstructive Pulmonary Disease) research[1][2][3].
IC_{50} & Target	pKi: 8.4 (A2AAR)[1]
In Vitro	UK-432097 has an EC_{50} value of 0.66 nM using CHO cells expressing human WT A_{50}AR[1]. UK-432097 (0.01, 0.1, 1, 10, 100, 1000 nM; pretreated for 2 hours) significantly increases cAMP accumulation in CHO-A2A cells [3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Fei Xu, et al. Structure of an agonist-bound human A2A adenosine receptor. Science. 2011 Apr 15;332(6027):322-7.

[2]. Kenneth A Jacobson, et al. Historical and Current Adenosine Receptor Agonists in Preclinical and Clinical Development. Front Cell Neurosci. 2019 Mar 28;13:124.

[3]. J Daniel Hothersall, et al. Structure-Activity Relationships of the Sustained Effects of Adenosine A2A Receptor Agonists Driven by Slow Dissociation Kinetics. Mol Pharmacol. 2017 Jan;91(1):25-38.

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

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