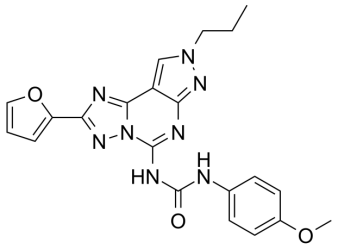
MRE3008F20

Cat. No.:	HY-103178
CAS No.:	252979-43-4
Molecular Formula:	$C_{21}H_{20}N_8O_3$
Molecular Weight:	432.44
Target:	Adenosine Receptor
Pathway:	GPCR/G Protein

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



BIOLOGICAL ACTIVITY

Description

MRE3008F20 is a highly efficient, highly selective and radioactive adenosine A_3 receptor (AA_3R) antagonist (K_i=1.8 nM). MRE3008F20 effectively antagonises Cl-IB-MECA-induced cAMP production in resting lymphocytes with an IC_{50} value of 5 nM. MRE3008F20 can be used in the study of AA3R[1][2].

IC_{50} & Target

IC50 : 5 nM (AA3R)[1]

In Vitro

MRE3008F20 (0.1-100 nM) antagonizes 100 nM Cl-IB-MECA-induced inhibition of cAMP levels in resting human lymphocytes[1].

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

Cell Viability Assay[1]

Cell Line:	Human lymphocytes
Concentration:	0.1-100 nM
Incubation Time:	
Result:	Antagonized 100 nM Cl-IB-MECA-induced inhibition of cAMP levels with an IC_{50} of 5.0 nM in resting Lymphocytes.

REFERENCES

[1]. Baraldi P G, et al. New potent and selective human adenosine A3 receptor antagonists. Trends in pharmacological sciences, 2000, 21(12): 456-459.

[2]. Gessi S, et al. Expression of A3 adenosine receptors in human lymphocytes: up-regulation in T cell activation. Mol Pharmacol. 2004 Mar;65(3):711-9.

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

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