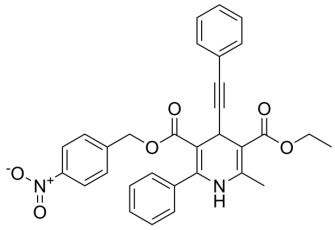
MRS1334

Cat. No.:	HY-103174
CAS No.:	192053-05-7
Molecular Formula:	$C_{31}H_{26}N_2O_6$
Molecular Weight:	522.55
Target:	Adenosine Receptor
Pathway:	GPCR/G Protein
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 52 mg/mL (99.51 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9137 mL	9.5685 mL	19.1369 mL
	5 mM	0.3827 mL	1.9137 mL	3.8274 mL
	10 mM	0.1914 mL	0.9568 mL	1.9137 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

MRS1334 is a potent and selective human adenosine A_3 receptor antagonist with K_is of 2.69 nM, >100 nM, >100 nM for hA_3, rA_1, rA_{2A}, respectively. MRS1334 blocks the protective effect of Cl-IB-MECA leading to significant bradycardia and elevated ST segment[1][2]. MRS1334 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.

IC_{50} & Target	hA_3	rA_1	rA_{2A}
	2.69 nM (Ki)	>100 nM (Ki)	>100 nM (Ki)

REFERENCES

[1]. P G Baraldi, et al. New potent and selective human adenosine A(3) receptor antagonists. Trends Pharmacol Sci. 2000 Dec;21(12):456-9.

[2]. Aya Galal, et al. Selective A3 adenosine receptor agonist protects against doxorubicin-induced cardiotoxicity. Cancer Chemother Pharmacol. 2016 Feb;77(2):309-22.

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

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