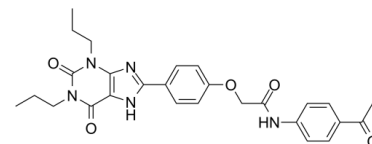


Data Sheet

Product Name:	MRS-1706
Cat. No.:	CS-0025272
CAS No.:	264622-53-9
Molecular Formula:	C ₂₇ H ₂₉ N ₅ O ₅
Molecular Weight:	503.55
Target:	Adenosine Receptor
Pathway:	GPCR/G Protein
Solubility:	DMSO : 6.4 mg/mL (12.71 mM; Need ultrasonic and warming); H ₂ O : < 0.1 mg/mL (insoluble)



BIOLOGICAL ACTIVITY:

MRS-1706 is a potent and selective **adenosine A_{2B} receptor** inverse agonist. MRS-1706 has K_i values of 1.39, 112, 157, and 230 nM for human A_{2B}, A_{2A}, A₁ and A₃ receptors respectively^{[1][2]}. IC₅₀ & Target: K_i : 1.39 (human A_{2B} receptor), 112 (human A_{2A} receptor), 157 (human A₁ receptor), 230 nM (human A₃ receptor)^[2]

References:

- [1]. Li Q, et al. ZM241385, DPCPX, MRS1706 are inverse agonists with different relative intrinsic efficacies on constitutively active mutants of the human adenosine A_{2B} receptor. *J Pharmacol Exp Ther.* 2007 Feb;320(2):637-45.
- [2]. Desai A, et al. Adenosine A_{2A} receptor stimulation increases angiogenesis by down-regulating production of the antiangiogenic matrix protein thrombospondin 1. *Mol Pharmacol.* 2005 May;67(5):1406-13.

CAIndexNames:

Acetamide, N-(4-acetylphenyl)-2-[4-(2,3,6,9-tetrahydro-2,6-dioxo-1,3-dipropyl-1H-purin-8-yl)phenoxy]-

SMILES:

O=C(NC1=CC=C(C(C)=O)C=C1)COC2=CC=C(C3=NC(N(CCC)C(N(CCC)C4=O)=O)=C4N3)C=C2

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

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