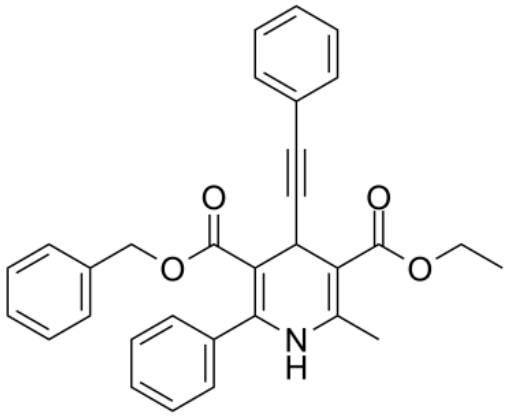
Product Data Sheet

Product Name: MRS-1191
Cat. No.: GC38112

Chemical Properties

Cas. No.	185222-90-6		
SMILES	O=C(OCC)C1=C(NC(C2=CC=CC=C2)=C(C1C#CC3=CC=CC=C3)C(OCC4=CC=CC=C4)=O)C		
Formula	$C_{31}H_{27}NO_4$	M.Wt	477.55
Solubility	DMSO: 250 mg/mL (523.51 mM)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

MRS-1191 is a potent and selective A3 adenosine receptor antagonist with a KB value of 92 nM, a Ki value of 31.4 nM for human A3 receptor and an IC50 of 120 nM for CHO cells[1].

The effects of putative A3 adenosine receptor antagonist of MRS-1191 is characterized in receptor binding and functional assays. MRS-1191 is found to be competitive in saturation binding studies using the agonist radioligand [125I]AB-MECA (N6-(4-amino-3-iodobenzyl)adenosine-5'-N-

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methyluronamide) at cloned human brain A3 receptor expressed in HEK-293 cells. Antagonism is demonstrated in functional assays consisting of agonist-induced inhibition of adenylate cyclase and the stimulation of binding of [35S]guanosine 5'-O-(3-thiotriphosphate) ([35S]GTP-gamma-S) to the associated G-proteins. MRS-1191 with a KB value of 92 nM, proves to be highly selective for human A3 receptor vs human A1 receptor-mediated effects on adenylate cyclase[1].

[1]. Jacobson KA, et al. Pharmacological characterization of novel A3 adenosine receptor-selective antagonists. Neuropharmacology. 1997 Sep;36(9):1157-65.

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