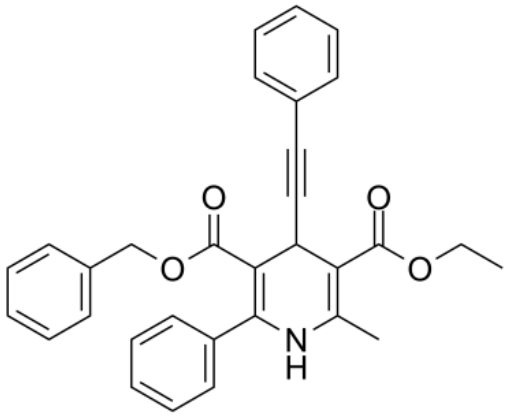
# Product Data Sheet

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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