

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

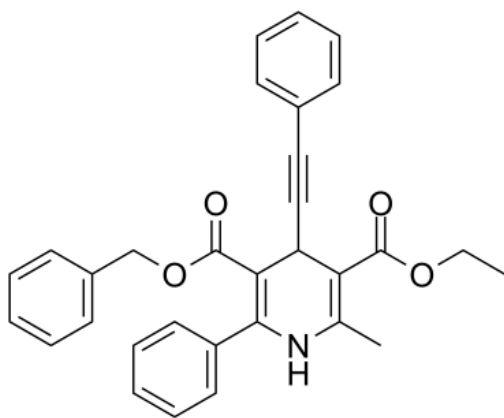
Formula $C_{31}H_{27}NO_4$ M.Wt 477.55

Solubility DMSO: 250 mg/mL (523.51 mM) Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

MRS-1191 is a potent and selective A3 adenosine receptor antagonist with a K_B value of 92 nM, a K_i value of 31.4 nM for human A3 receptor and an IC_{50} 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 [^{125}I]AB-MECA (N6-(4-amino-3-iodobenzyl)adenosine-5'-N-

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

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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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