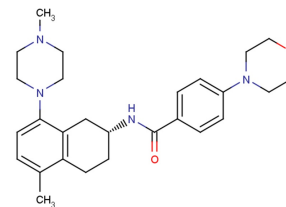


AR-A 2

Chemical Properties

CAS No.:	220051-79-6
Formula:	C ₂₇ H ₃₆ N ₄ O ₂
Molecular Weight:	448.6
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	AR-A 2 is a selective 5-HT _{1B} receptor antagonist, with a high affinity to guinea pig cortex 5HT _{1B} /1D and recombinant guinea pig 5-HT _{1B} receptors (K _i : 0.24 and 0.47 nM) and with 10-fold lower affinity to guinea pig 5-HT _{1D} receptor (K _i : 5 nM).
Targets(IC ₅₀)	guinea pig 5-HT _{1B} receptor: (EC ₅₀) 4.5 nM guinea pig cortex 5HT _{1B} /1D: (K _i) 0.24 nM recombinant guinea pig 5-HT _{1B} receptor: 0.47 nM guinea pig 5-HT _{1D} receptor: 5 nM rat cortical 5HT _{1B} /1D receptor: 20 nM rat cortex 5-HT _{2A} receptor): 339 nM Rat hippocampus 5-HT _{1A} receptor): 3070 nM dopamine D ₂): 330 nM α ₁ -adrenoceptor): 490 nM
In vitro	AR-A 2 (AR-A000002) is a selective 5-HT _{1B} receptor antagonist and shows an EC ₅₀ of 4.5 nM for the guinea pig 5-HT _{1B} receptor. AR-A 2 also binds to the rat cortical 5HT _{1B} /1D receptor (K _i : 20 nM), rat cortex 5-HT _{2A} receptor (K _i : 339 nM), rat hippocampus 5-HT _{1A} receptor (K _i : 3070 nM). In addition, AR-A 2 also exhibits an affinity for dopamine D ₂ (K _i : 330 nM) and α ₁ -adrenoceptors (K _i : 490 nM).

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.229 mL	11.146 mL	22.292 mL
5 mM	0.446 mL	2.229 mL	4.458 mL
10 mM	0.223 mL	1.115 mL	2.229 mL
50 mM	0.045 mL	0.223 mL	0.446 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Ahlgren C, et al. In vitro characterization of AR-A000002, a novel 5-hydroxytryptamine(1B) autoreceptor antagonist. Eur J Pharmacol. 2004 Sep 19;499(1-2):67-75.

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