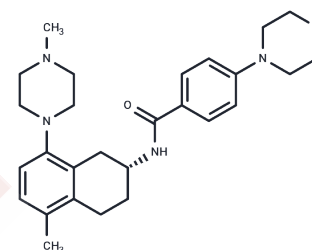


## AR-A 2

## Chemical Properties

CAS No. :	220051-79-6
Formula:	C <sub>27</sub> H <sub>36</sub> N <sub>4</sub> O <sub>2</sub>
Molecular Weight:	448.6
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

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

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2292 mL	11.1458 mL	22.2916 mL
5 mM	0.4458 mL	2.2292 mL	4.4583 mL
10 mM	0.2229 mL	1.1146 mL	2.2292 mL
50 mM	0.0446 mL	0.2229 mL	0.4458 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

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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