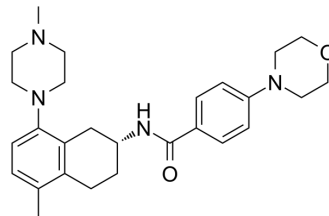


AR-A 2

| | |
|--------------------|---|
| Cat. No.: | HY-107018 |
| CAS No.: | 220051-79-6 |
| Molecular Formula: | C ₂₇ H ₃₆ N ₄ O ₂ |
| Molecular Weight: | 448.6 |
| Target: | 5-HT Receptor |
| Pathway: | GPCR/G Protein; Neuronal Signaling |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | | | |
|-------------------------------------|---|---|--|
| Description | AR-A 2 is a selective 5-HT _{1B} receptor antagonist, with 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), and shows an EC ₅₀ of 4.5 nM for the guinea pig 5-HT _{1B} receptor; AR-A 2 can be used in the research of depression and anxiety. | | |
| IC₅₀ & Target | 5-HT _{1B/D} Receptor 20 nM (K _i) | 5-HT _{2A} Receptor 339 nM (K _i) | 5-HT _{1A} Receptor 3070 nM (K _i) |
| In Vitro | AR-A 2 (AR-A000002) is a selective 5-HT _{1B} receptor antagonist, with 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} receptors (K _i , 5 nM), 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 affinity for dopamine D ₂ (K _i , 330 nM) and α ₁ -adrenoceptors (K _i , 490 nM) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. | | |

REFERENCES

[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.

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

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