AGN 192836

Cat. No.: HY-100300
CAS No.: 171102-29-7
Molecular Formula: \(C_{12}H_{13}N_{3}O_{2}\)
Molecular Weight: 231.25
Target: Adrenergic Receptor
Pathway: GPCR/G Protein; Neuronal Signaling
Storage: Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description
AGN 192836 is a potent and selective \(\alpha_2\) adrenergic agonist with \(EC_{50}\)s of 8.7, 41 and 6.6 nM for \(\alpha_2A\), \(\alpha_2B\) and \(\alpha_2C\) receptor, respectively.

\(IC_{50}\) & Target
EC50: 8.7 nM (\(\alpha_2A\)), 41 nM (\(\alpha_2B\)), 6.6 nM (\(\alpha_2C\))\[1\]
Ki: 1.7 nM (\(\alpha_2A\)), 82 nM (\(\alpha_2B\)), 19 nM (\(\alpha_2C\))\[1\]

In Vitro
Binding assays demonstrates that AGN 192836 is 1200-fold selective for the \(\alpha_2A\)-receptor relative to the \(\alpha_1\)-receptor, 50-fold selective for the \(\alpha_2A\)-receptor relative to the \(\alpha_2B\)-receptor, and 10-fold selective for the \(\alpha_2A\)receptor relative to the \(\alpha_2C\)-receptor\[1\].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo
AGN 192836 is equally efficacious when compared to brimonidine for the reduction of intraocular pressure upon topical administration to the rabbit and more efficacious than brimonidine for the reduction of blood pressure upon intravenous administration to monkey\[1\].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Animal Administration\[1\]
Rabbit: A single drop of either brimonidine or AGN 192836 (0.001%) is applied unilaterally to rabbit eyes, and the intraocular pressure is monitored for 6 h post-administration\[1\].

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REFERENCES


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