
Product Data Sheet

Product Name: AGN 192836

Cat. No.: GC32599

Chemical Properties

Cas. No. 171102-29-7

SMILES CC1=C2OCCOC2=CC=C1NC3=NC=CN3

Formula $C_{12}H_{13}N_3O_2$ M.Wt 231.25

Solubility DMSO : 80 mg/mL (345.95 mM; Need ultrasonic) Storage Store at -20°C

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

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

Structure

Protocol

Animal experiment:

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].

References:

[1]. Stephen M, et al. Synthesis and Evaluation of 2-(Arylamino)imidazoles as α_2 -Adrenergic Agonists. J. Med. Chem., 1997, 40 (1), pp 18-23

Background

AGN 192836 is a potent and selective α_2 adrenergic agonist with EC50s of 8.7, 41 and 6.6 nM for α_2A , α_2B and α_2C receptor, respectively.

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

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Binding assays demonstrates that AGN 192836 is 1200-fold selective for the α 2A-receptor relative to the α 1-receptor, 50-fold selective for the α 2A-receptor relative to the α 2B-receptor, and 10-fold selective for the α 2Areceptor relative to the α 2C-receptor[1].

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].

[1]. Stephen M, et al. Synthesis and Evaluation of 2-(Arylamino)imidazoles as α 2-Adrenergic Agonists. J. Med. Chem., 1997, 40 (1), pp 18-23

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