Product Name: CGS 21680
CAS No.: 120225-54-9
Cat. No.: HY-13201
MWT: 499.52
Formula: C23H29N7O6
Purity : >98%
Solubility: DMSO

Mechanisms:
Pathways: GPCR/G protein; Target: Adenosine Receptor

Biological Activity:
CGS 21680 is an adenosine A2 receptor agonist with IC50 of 22 nM, exhibits 140-fold over A1 receptor.
IC50 value: 22 nM
Target: adenosine A2 receptor
in vitro: CGS 21680 HCl is an adenosine A2 receptor agonist with IC50 of 22 nM, exhibits 140-fold over A1 receptor. In an isolated perfused working rat heart model, CGS 21680C effectively increases coronary flow with an ED25 value of 1.8 nM [1]. CGS 21680 binds adenosine A2 receptor with high affinity (Kd = 15.5 nM) and limited capacity (apparent Bmax = 375 fmol/mg of protein) to a single class of recognition sites [2].
in vivo: CGS 21680A is active p.o. in the spontaneously hypertensive rat at a dose of 10 mg/kg with efficacy for up to 24 hr. CGS 21680A caused a transient (60 min) increase in heart rate [1]. CGS 21680 is a potent depressant of the spontaneous, acetylcholine and glutamate evoked firing of rat cerebral c...

References:

Caution: Not fully tested. For research purposes only

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