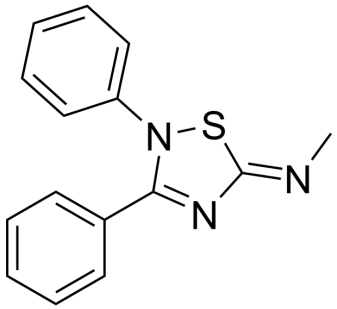
SCH-202676

Cat. No.:	HY-133862
CAS No.:	70375-43-8
Molecular Formula:	$C_{15}H_{13}N_3S$
Molecular Weight:	267.35
Target:	Influenza Virus; G protein-coupled Bile Acid Receptor 1; Adenosine Receptor
Pathway:	Anti-infection; GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SCH-202676 is an allosteric modulator of G protein-coupled receptors (GPCRs) and adenosine receptor (AR). SCH-202676 has antiviral activity and inhibits $3CL^{pro}$ in a time-dependent manner with an IC_{50} value of 0.655 μM[1][2][3][4].
IC_{50} & Target	Adenosine A_3 receptor
In Vitro	SCH-202676 (compound 6a) (0.01-10 μM; 0, 5, 10 and 20 min) shows antiviral activity and inhibits $3CL^{pro}$ in a time-dependent manner, with IC_{50} values of 0.409, 0.302, 0.206 and 0.191 μM for 0, 5, 10 and 20 min, respectively[1]. SCH-202676 (10 μM; 90 min) enhances the labelling of [^{35}S]GTPγS in rat forebrain membranes[2]. SCH-202676 inhibits the agonist [^{3}H]UK-14,304 (HY-B0659) and the antagonist [^{3}H] Yohimbine (HY-12715) binding to the α_{2a} adrenergic receptor[3]. SCH-202676 (10 μM) selectively accelerates agonist dissociation at adenosine A3 receptors, slows antagonist dissociation at adenosine Ai receptors, accelerates antagonist dissociation at adenosine AzA receptors[4]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ren P, et al. Discovery, synthesis and mechanism study of 2,3,5-substituted [1,2,4]-thiadiazoles as covalent inhibitors targeting 3C-Like protease of SARS-CoV-2. Eur J Med Chem. 2023 Jan 18;249:115129.

[2]. Lewandowicz AM, et al. The 'allosteric modulator' SCH-202676 disrupts G protein-coupled receptor function via sulphydryl-sensitive mechanisms. Br J Pharmacol. 2006 Feb;147(4):422-9.

[3]. Fawzi A B, et al. SCH-202676: an allosteric modulator of both agonist and antagonist binding to G protein-coupled receptors[J]. Molecular Pharmacology, 2001, 59(1): 30-37.

[4]. Gao ZG, et al. Effects of the allosteric modulator SCH-202676 on adenosine and P2Y receptors. Life Sci. 2004 May 7;74(25):3173-80.

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