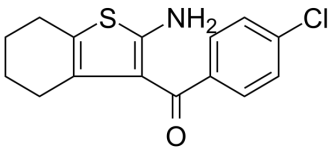
Adenosine A1 receptor activator T62

Cat. No.:	HY-106199
CAS No.:	40312-34-3
Molecular Formula:	$C_{15}H_{14}ClNOS$
Molecular Weight:	291.8
Target:	Adenosine Receptor
Pathway:	GPCR/G Protein
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	Adenosine A1 receptor activator T62 is an allosteric enhancer of adenosine A1 receptor. Adenosine A1 receptor activator T62 produces antinociception in animal models of acute pain and also reduces hypersensitivity in models of inflammatory and nerve-injury pain[1][2][3].
IC_{50} & Target	Adenosine A1 receptor[1]
In Vivo	Adenosine A1 receptor activator T62 (0.3-3 μg; intrathecal administration; male Sprague Dawley rats) treatment produces a dose-dependent antihypersensitivity effect, with no effect on ambulation or activity level[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male SprageDawley rats (250 g) after paw incision surgery[1]
Dosage:	0.3 μg, 0.5 μg, 1 μg, and 3 μg
Administration:	Intrathecal administration
Result:	Produced a dose-dependent antihypersensitivity effect, with no effect on ambulation or activity level. The ED_{40} (95% confidence interval) was 0.77 (0.63-0.91) μg.

CUSTOMER VALIDATION

- SSRN. 2023 May 30.

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REFERENCES

[1]. Obata H, et al. Spinal adenosine receptor activation reduces hypersensitivity after surgery by a different mechanism than after nerve injury. Anesthesiology. 2004

May;100(5):1258-62.

[2]. Li X, et al. Allosteric adenosine receptor modulation reduces hypersensitivity following peripheral inflammation by a central mechanism. J Pharmacol Exp Ther. 2003 Jun;305(3):950-5.

[3]. Soudijn W, et al. Allosteric modulation of G protein-coupled receptors: perspectives and recent developments. Drug Discov Today. 2004 Sep 1;9(17):752-8.

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