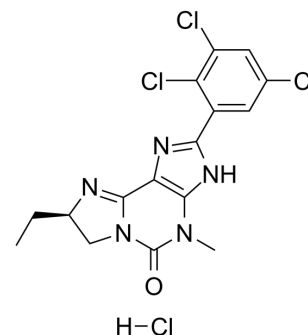


PSB-10 hydrochloride

| | |
|---------------------------|---|
| Cat. No.: | HY-103177 |
| CAS No.: | 591771-91-4 |
| Molecular Formula: | C ₁₆ H ₁₅ Cl ₄ N ₅ O |
| Molecular Weight: | 435.14 |
| Target: | Adenosine Receptor |
| Pathway: | GPCR/G Protein |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|---|
| Description | PSB-10 hydrochloride is a potent and selective antagonist of human adenosine A ₃ receptor (A ₃ AR), with a K _i of 0.44 nM. PSB-10 hydrochloride shows more than 800-fold selectivity for hA ₃ over rA ₁ , rA _{2A} , hA ₁ , hA _{2A} and hA _{2B} receptors (K _i =805, 6040, 1700, 2700, 30000 nM, respectively). PSB-10 hydrochloride produces thermal hyperalgesia in mice ^{[1][2]} . |
| IC₅₀ & Target | K _i : 0.44 nM (hA ₃ AR) ^[2] |
| In Vitro | PSB-10 hydrochloride exhibits a subnanomolar K _i value (K _i =0.43 nM versus [³ H]NECA) for A ₃ AR. In addition, R-8 is highly selective (>800-fold) versus the other AR subtypes ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |
| In Vivo | PSB-10 hydrochloride (50-100 mg/kg; i.p.) dose-dependently decreases hot-plate response latencies in mice ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

[1]. Ozola V, et, al. 2-Phenylimidazo[2,1-i]purin-5-ones: structure-activity relationships and characterization of potent and selective inverse agonists at Human A₃ adenosine receptors. *Bioorg Med Chem*. 2003 Feb 6;11(3):347-56.

[2]. Abo-Salem OM, et, al. Antinociceptive effects of novel A_{2B} adenosine receptor antagonists. *J Pharmacol Exp Ther*. 2004 Jan;308(1):358-66.

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

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