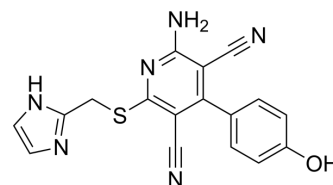


## LUF5834

|                    |   |
|--------------------|---|
| Cat. No.:          | HY-103170   |
| CAS No.:           | 333962-91-7   |
| Molecular Formula: | C <sub>17</sub> H <sub>12</sub> N <sub>6</sub> OS   |
| Molecular Weight:  | 348.38  |
| Target:            | Adenosine Receptor  |
| Pathway:           | GPCR/G Protein  |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



## BIOLOGICAL ACTIVITY

|                           |  |  |  |
|---------------------------|--|--|--|
| Description               | LUF5834 is a selective A <sub>2B</sub> adenosine receptor (A <sub>2B</sub> R) partial agonist (EC <sub>50</sub> = 12 nM). LUF5834 is also a partial A <sub>1</sub> /A <sub>2A</sub> adenosine receptor agonist (lacking selectivity) with K <sub>i</sub> values of 2.6 and 28 nM, respectively <sup>[1][2]</sup> . |  |  |
| IC <sub>50</sub> & Target | A <sub>2B</sub> R<br>12 nM (EC <sub>50</sub> )   | A <sub>2A</sub> R<br>28 nM (K <sub>i</sub> ) | A <sub>1</sub> R<br>2.6 nM (K <sub>i</sub> ) |

## REFERENCES

[1]. Beukers MW, et al. New, non-adenosine, high-potency agonists for the human adenosine A<sub>2B</sub> receptor with an improved selectivity profile compared to the reference agonist N-ethylcarboxamidoadenosine. J Med Chem. 2004 Jul 15;47(15):3707-9.

[2]. Lane JR, et al. A novel nonribose agonist, LUF5834, engages residues that are distinct from those of adenosine-like ligands to activate the adenosine A<sub>2A</sub> receptor. Mol Pharmacol. 2012 Mar;81(3):475-87.

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

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