



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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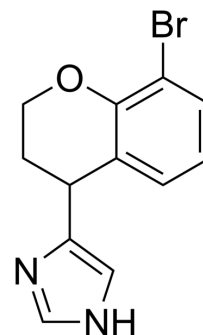
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## $\alpha$ 2A-AR agonist 1

|                    |   |
|--------------------|---|
| Cat. No.:          | HY-162620   |
| CAS No.:           | 2971825-58-6  |
| Molecular Formula: | C <sub>12</sub> H <sub>11</sub> BrN <sub>2</sub> O  |
| Molecular Weight:  | 279.13  |
| Target:            | Adrenergic Receptor   |
| Pathway:           | GPCR/G Protein; Neuronal Signaling  |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

|                                     |   |   |  |  |
|-------------------------------------|---|---|--|--|
| <b>Description</b>                  | $\alpha$ 2A-AR agonist 1 (Compound B9) is a selective agonist for $\alpha$ 2-adrenergic receptor ( $\alpha$ 2A-AR) with EC <sub>50</sub> of 0.23 nM. $\alpha$ 2A-AR agonist 1 exhibits a hypnotic effect, with ED <sub>50</sub> of 0.138 mg/kg in the loss of righting reflex (LORR) experiment. $\alpha$ 2A-AR agonist 1 exhibits metabolic stability in mouse liver microsomes <sup>[1]</sup> . |   |  |  |
| <b>IC<sub>50</sub> &amp; Target</b> | Alpha-2A adrenergic receptor<br>0.23 nM (EC50)  | Alpha-1A adrenergic receptor<br>2.5 nM (EC50) | Alpha-2B adrenergic receptor<br>16.3 nM (EC50) | Alpha-2C adrenergic receptor<br>21.3 nM (EC50) |

### REFERENCES

[1]. Lv X, et al., Designing Chromane Derivatives as  $\alpha$ 2A-Adrenoceptor Selective Agonists via Conformation Constraint. J Med Chem. 2024 Jun 18.

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

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