# (Rac)-Razpipadon

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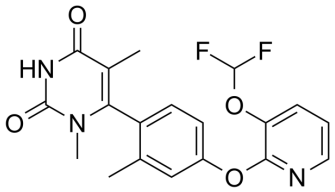
|---|---|
| **Cat. No.:** | HY-141495 |
| **CAS No.:** | 1643462-93-4 |
| **Molecular Formula:** | $C_{19}H_{17}F_2N_3O_4$ |
| **Molecular Weight:** | 389.35 |
| **Target:** | Dopamine Receptor |
| **Pathway:** | GPCR/G Protein; Neuronal Signaling |
| **Storage:** | Powder -20°C 3 years<br>4°C 2 years<br>In solvent -80°C 6 months<br>-20°C 1 month |



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 25 mg/mL (64.21 mM; ultrasonic and warming and heat to 60°C)

| Preparing Stock Solutions | Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 2.5684 mL | 12.8419 mL | 25.6838 mL |
| | 5 mM | 0.5137 mL | 2.5684 mL | 5.1368 mL |
| | 10 mM | 0.2568 mL | 1.2842 mL | 2.5684 mL |

Please refer to the solubility information to select the appropriate solvent.

**In Vivo**

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.42 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

PW0464, a nanomolar potent complete G protein biased ligand, is a noncatechol D1R agonist, with an $EC_{50}$ of 5.8 nM (Gs-cAMP)[1].

**In Vitro**

PW0464 (compound 24) is found to elicit complete G protein bias, showing no activity for D1R-mediated β-arrestin recruitment[1].
PW0464 (compound 24), the non-catechol agonist, forms bonds with $S198^{5.42}$ and $S202^{5.46}$ via its fluorine atom[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Pingyuan Wang, et al. Synthesis and Pharmacological Evaluation of Noncatechol G Protein Biased and Unbiased Dopamine D1 Receptor Agonists. ACS Med Chem Lett

[2]. David R Sibley, et al. Novel Cryo-EM structures of the D1 dopamine receptor unlock its therapeutic potential. Signal Transduct Target Ther. 2021 May 22;6(1):205.



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