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**Product Data Sheet**

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Product Name: PW0464  
Cat. No.: GC63157

**Chemical Properties**

Cas. No. 1643462-93-4

Formula  $C_{19}H_{17}F_2N_3O_4$

M.Wt 389.35

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

Storage

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

**Background**

PW0464, a nanomolar potent complete G protein biased ligand, is a noncatechol D1R agonist, with an EC50 of 5.8 nM (Gs-cAMP)[1].

PW0464 (compound 24) is found to elicit complete G protein bias, showing no activity for D1R-mediated  $\beta$ -arrestin recruitment[1]. PW0464 (compound 24), the non-catechol agonist, forms bonds with S1985.42 and S2025.46 via its fluorine atom[2].

[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.

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

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