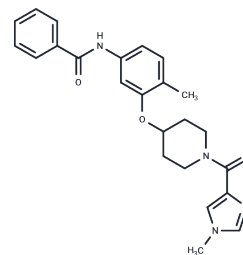


WQ-C-401

## Chemical Properties

CAS No. : 2376694-72-1  
 Formula: C<sub>24</sub>H<sub>26</sub>N<sub>4</sub>O<sub>3</sub>  
 Molecular Weight: 418.49  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	WQ-C-401 is an orally active inhibitor of the platelet-derived growth factor receptor (PDGFR). It inhibits cell proliferation by blocking PDGFR auto-phosphorylation in a concentration-dependent manner, with EC <sub>50</sub> values of 3.5 nM for PDGFR $\alpha$ Y849 and 5.8 nM for PDGFR $\beta$ Y1021. Additionally, WQ-C-401 suppresses the proliferation and migration of PSMCs by inhibiting PDGF-BB-induced phosphorylation of ERK1/2, reduces collagen I synthesis, and increases $\alpha$ -SMA expression, thereby preventing pulmonary vascular remodeling. This compound shows promise for research in the field of pulmonary arterial hypertension.
Targets(IC <sub>50</sub> )	ERK,PDGFR

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3895 mL	11.9477 mL	23.8954 mL
5 mM	0.4779 mL	2.3895 mL	4.7791 mL
10 mM	0.239 mL	1.1948 mL	2.3895 mL
50 mM	0.0478 mL	0.239 mL	0.4779 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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