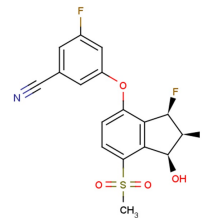


PT2977

## Chemical Properties

CAS No.:	1672668-24-4
Formula:	C <sub>17</sub> H <sub>12</sub> F <sub>3</sub> NO <sub>4</sub> S
Molecular Weight:	383.34
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	PT2977 is a potential treatment for clear cell renal cell carcinoma (ccRCC). PT2977 is an orally active and selective HIF-2 $\alpha$ inhibitor (IC <sub>50</sub> : 9 nM). PT2977, as a second-generation HIF-2 $\alpha$ inhibitor, increases potency and improves pharmacokinetic profile.
Targets(IC <sub>50</sub> )	HIF-2 $\alpha$ : 9 nM
In vitro	PT2977 effectively and dose-dependently decreased mRNA levels of human cyclin D1, a target gene regulated by HIF-2 $\alpha$ . It leads to a rapid and dose-dependent reduction in EPO expression[1].

## Solubility Information

Solubility	DMSO: 50 mg/mL (130.43 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.609 mL	13.043 mL	26.087 mL
5 mM	0.522 mL	2.609 mL	5.217 mL
10 mM	0.261 mL	1.304 mL	2.609 mL
50 mM	0.052 mL	0.261 mL	0.522 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

### Reference

1. Xu R, et al. 3-[(1S,2S,3R)-2,3-Difluoro-1-hydroxy-7-methylsulfonylindan-4-yl]oxy-5-fluorobenzonitrile (PT2977), a Hypoxia-Inducible Factor 2 $\alpha$  (HIF-2 $\alpha$ ) Inhibitor for the Treatment of Clear Cell Renal Cell Carcinoma. J Med Chem. 2019 Aug 8;62(15):6876-6893.

Inhibitors · Natural Compounds · Compound Libraries

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