Belzutifan

Cat. No.:	HY-125840
CAS No.:	1672668-24-4
Molecular Formula:	C ₁₇ H ₁₂ F ₃ NO ₄ S
Molecular Weight:	383.34
Target:	HIF/HIF Prolyl-Hydroxylase
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, stored under nitrogen
	* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)

SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	2.6087 mL	13.0433 mL	26.0865 mL		
		5 mM	0.5217 mL	2.6087 mL	5.2173 mL		
		10 mM	0.2609 mL	1.3043 mL	2.6087 mL		
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo	 Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.52 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.52 mM); Clear solution 						
	 Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.52 mM); Clear solution 						
	4. Add each solvent one by one: 1% DMSO >> 99% saline Solubility: ≥ 0.5 mg/mL (1.30 mM); Clear solution						

BIOLOGICAL ACTIVITY Description Belzutifan (PT2977) is an orally active and selective HIF-2α inhibitor with an IC₅₀ of 9 nM. Belzutifan, as a second-generation HIF-2α inhibitor, increases potency and improves pharmacokinetic profile. Belzutifan is a potential treatment for clear cell renal cell carcinoma (ccRCC)^[1]. IC₅₀ & Target IC50: 9 nM (HIF-2α)^[1] In Vitro Belzutifan (PT2977) potently and dose-dependently reduces mRNA levels of human cyclin D1, a target gene regulated by

N

E

OH

0=S=0



HIF-2 α , and leads to rapid and dose-dependent reduction in EPO expression^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cancer Discov. 2021 Jun;11(6):1398-1410.
- Ann Rheum Dis. 2022 Jun 16;annrheumdis-2021-222035.

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REFERENCES

[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 2α (HIF-2α) Inhibitor for the Treatment of Clear Cell Renal Cell Carcinoma. J Med Chem. 2019 Aug 8;62(15):6876-6893.

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

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