PT-2385

Cat. No.: HY-12867

CAS No.: 1672665-49-4 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: Powder -20°C

3 years 4°C 2 years

-80°C In solvent 1 year

> -20°C 6 months

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

DMSO: ≥ 50 mg/mL (130.43 mM)

* "≥" means soluble, but saturation unknown.

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

- 1. Add each solvent one by one: 5% DMSO >> 40% PEG300 >> 5% Tween-80 >> 50% saline Solubility: 2.87 mg/mL (7.49 mM); Suspended solution; Need ultrasonic
- 2. 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
- 3. 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
- 4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.52 mM); Clear solution

BIOLOGICAL ACTIVITY

PT-2385 is a selective HIF-2 α inhibitor with a K_i of less than 50 nM^{[1][2]}. Description

Kd: $<50 \text{ nM (HIF-}2\alpha)^{[1]}$ IC₅₀ & Target

In Vitro	PT-2385 (PT2385) is a selective antagonist of HIF-2 over HIF-1. PT-2385 is inactive for HIF- $1\alpha^{[1]}$. MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vitro	PT-2385 (PT2385) inhibi PT-2385 (3 and 10 mg/k protein levels. PT-2385	kg; oral gavage; twice daily) result in a rapid, dose-dependent tumor regression ^[3] . its expression of HIF-2α regulated genes in a dose dependent manner in vivo. Tumor is regressed with g, p.o., b.i.d. dose) in 786-O xenograft. PT-2385 (1,3 and 10 mg/kg) also inhibits tumor-derived VEGFA (10 mg/kg) treatment reduces proliferation (Ki67) and angiogenesis (CD-31) ^[1] . intly confirmed the accuracy of these methods. They are for reference only. SCID/beige mice with the 786-O and A498 RCC cell lines ^[3] 30 or 100 mg/kg Oral gavage; twice daily Resulted in a rapid, dose-dependent tumor regression.	

CUSTOMER VALIDATION

- Nat Med. 2017 Nov;23(11):1298-1308.
- Cell Metab. 2020 Jan 7;31(1):115-130.e6.
- Nat Commun. 2020 Oct 6;11(1):5005.
- J Clin Invest. 2020 May 1;130(5):2237-2251.
- J Clin Invest. 2019 Jan 2;129(1):336-348.

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REFERENCES

- [1]. Eli Wallace, Ph.D. PT2385: HIF-2 α Antagonist for the Treatment of VHL Mutant ccRCC. 12th International VHL Medical Symposium April 8, 2016.
- [2]. Xie C, et al. Activation of intestinal hypoxia-inducible factor 2a during obesity contributes to hepatic steatosis. Nat Med. 2017 Nov;23(11):1298-1308.
- [3]. Wallace EM, et al. A Small-Molecule Antagonist of HIF2α Is Efficacious in Preclinical Models of Renal Cell Carcinoma. Cancer Res. 2016 Sep 15;76(18):5491-500.

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

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