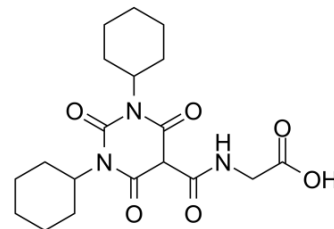


Daprodustat

Cat. No.:	HY-17608		
CAS No.:	960539-70-2		
Molecular Formula:	C ₁₉ H ₂₇ N ₃ O ₆		
Molecular Weight:	393.43		
Target:	HIF/HIF Prolyl-Hydroxylase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 19.5 mg/mL (49.56 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		2.5417 mL	12.7087 mL	25.4175 mL
	5 mM		0.5083 mL	2.5417 mL	5.0835 mL
	10 mM		0.2542 mL	1.2709 mL	2.5417 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Daprodustat (GSK1278863) is an orally active **hypoxia-inducible factor prolyl hydroxylase (HIF-PH)** inhibitor being developed for the treatment of anemia associated with chronic kidney disease.

In Vitro

GSK1278863 is an orally administered small-molecule PHI, and stimulates endogenous EPO synthesis and induce effective erythropoiesis^[1]. GSK1278863 has been shown to increase erythropoietin levels, leading to increases in hemoglobin, hematocrit and red blood cell numbers^[2].

CUSTOMER VALIDATION

- J Anal Toxicol. 2020 May 20;bkaa055.
- Drug Test Anal. 2020 Aug 27.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Brigandi RA, et al. A Novel Hypoxia-Inducible Factor-Prolyl Hydroxylase Inhibitor (GSK1278863) for Anemia in CKD: A 28-Day, Phase 2A Randomized Trial. *Am J Kidney Dis.* 2016 Jun;67(6):861-71

[2]. Hara K, et al. Pharmacokinetics, pharmacodynamics and safety of single, oral doses of GSK1278863, a novel HIF-prolyl hydroxylase inhibitor, in healthy Japanese and Caucasian subjects. *Drug Metab Pharmacokinet.* 2015 Dec;30(6):410-8

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

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