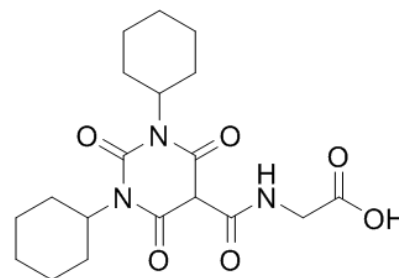


Product Name : Daprodustat
Cat. No. : PC-45387
CAS No. : 960539-70-2
Molecular Formula : C₁₉H₂₇N₃O₆
Molecular Weight : 393.4342
Target : HIF/HIF Prolyl-hydroxylase
Solubility : DMSO: < 6.8 mg/mL



Biological Activity

Daprodustat (GSK1278863) is a potent, orally active **HIF-prolyl hydroxylase (PHD)** inhibitor with IC₅₀ of 3.5, 22.2 and 2.2 nM for PHD1, PHD2 and PHD3, respectively.

Daprodustat (GSK1278863) displays high selectivity over α -KG-dependent iron dioxygenases FIH and CP4H (IC₅₀>9800 nM).

Daprodustat (GSK1278863) stimulate endogenous EPO synthesis and induces effective erythropoiesis by non-EPO effects.

Daprodustat (GSK-1278863) shows potential for the treatment of anemia associated with chronic kidney disease.

References

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- Hara K, et al. *Drug Metab Pharmacokinet.* 2015 Dec;30(6):410-8.
- Johnson BM, et al. *Clin Pharmacol Drug Dev.* 2014 Mar;3(2):109-17.
4. Ariazi JL, et al. *J Pharmacol Exp Ther.* 2017 Dec;363(3):336-347.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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