

Product Name : Molidustat

Synonyms : BAY 85-3934;BAY 853934

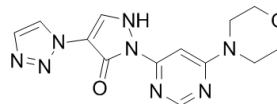
Cat No. : M10540

CAS Number : 1154028-82-6

Molecular Formula : C₁₃H₁₄N₈O₂

Formula Weight : 314.30

Chemical Name : 3H-Pyrazol-3-one, 1,2-dihydro-2-[6-(4-morpholinyl)-4-pyrimidinyl]-4-(1H-1,2,3-triazol-1-yl)-



Description : Molidustat (BAY 85-3934) is an orally active small molecule inhibitor of hypoxia inducible factor prolyl hydroxylase (HIF-PH) with IC₅₀ of 480 nM, 280 nM and 450 nM for PHD1, PHD2, and PHD3, respectively; causes dose-dependent production of erythropoietin (EPO) in healthy Wistar rats and cynomolgus monkeys, increases hemoglobin levels and shows effectivity in the treatment of renal anemia in rats with impaired kidney function, results in normalization of hypertensive blood pressure in rat model of CKD. Anemia Phase 3 Clinical

Pathway : Angiogenesis

Target : HIF/HIF Prolyl-hydroxylase

Receptor : PHD1;PHD2;PHD3

Solubility : DMSO: < 3.3 mg/mL

SMILES : O=C1N(C2=NC=NC(N3CCOCC3)=C2)NC=C1N4N=NC=C4

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Flamme I, et al. PLoS One. 2014 Nov 13;9(11):e111838. | 2. Beck H, et al. ChemMedChem. 2018 Feb 27. doi: 10.1002/cmdc.201700783. | 3. Bttcher M, et al. Br J Clin Pharmacol. 2018 Mar 25. doi: 10.1111/bcp.13584. | 4. Gupta N, et al. Am J Kidney Dis. 2017 Jun;69(6):815-826.