

产品名称 : BYK191023 dihydrochloride

同义词 : BYK-191023

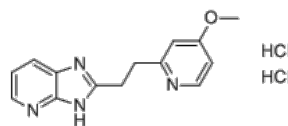
产品货号 : M10811

CAS Number : 1216722-25-6

分子式 : C₁₄H₁₆Cl₂N₄O

分子量 : 327.209

化学全名 : 2-[2-(4-Methoxy-pyridin-2-yl)-ethyl]-3H-imidazo[4,5-b]pyridine dihydrochloride



产品描述 : BYK191023 dihydrochloride (BYK-191023) is a potent, highly selective inhibitor of inducible nitric-oxide synthase (iNOS) with IC₅₀ of 86 nM, >20-fold selectivity over nNOS and eNOS (IC₅₀=17 and 162 uM); exhibits an affinity for iNOS, nNOS, and eNOS of 450 nM, 30 uM, and >500 uM, respectively; inhibits cellular nitrate/nitrite synthesis in RAW, rat mesangium, and human embryonic kidney 293 cells with IC₅₀ values 40- to 100-fold higher than at the isolated enzyme; dose-dependently suppresses the LPS-induced increase in plasma nitrate/nitrite (NO(x)) levels with ED₅₀ of 14.9 micromol/kg/h, partially restores normal blood pressure responses to norepinephrine and sodium nitroprusside in model of LPS-induced vascular hyporesponsiveness.

通路 : Immunology/Inflammation

靶点 : NOS

受体 : NOS

溶解度 : ——

SMILES : COC1=CC(CCC2=NC3=NC=CC=C3N2)=NC=C1.[H]Cl.[H]Cl

存储条件 : (-20℃)

稳定性 : ≥ 2 years

参考文献 :

1. Strub A, et al. Mol Pharmacol. 2006 Jan;69(1):328-37. 2. Lehner MD, et al. J Pharmacol Exp Ther. 2006 Apr;317(1):181-7. 3. Tiso M, et al. Mol Pharmacol. 2008 Apr;73(4):1244-53. 4. Higashi Y, et al. Br J Pharmacol. 2018 Jul 14. doi: 10.1111/bph.14445.