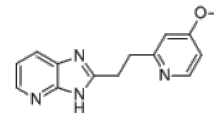


Product Name : BYK191023
Cat. No. : PC-35418
CAS No. : 608880-48-4
Molecular Formula : C₁₄H₁₄N₄O
Molecular Weight : 254.293
Target : Nitric Oxide Synthase (NOS)
Solubility : 10 mM in DMSO



Biological Activity

BYK191023 (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 μM).

BYK191023 exhibits an affinity for iNOS, nNOS, and eNOS of 450 nM, 30 μM, and >500 μM, respectively.

BYK191023 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.

BYK191023 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.

References

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

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