

## **Data Sheet**

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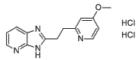
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**Product Name** : BYK191023 dihydrochloride

Cat. No. : PC-35419
CAS No. : 1216722-25-6
Molecular Formula : C<sub>14</sub>H<sub>16</sub>Cl<sub>2</sub>N<sub>4</sub>O
Molecular Weight : 327.209

Target : Nitric Oxide Synthase (NOS)

**Solubility** : 10 mM in DMSO



## **Biological Activity**

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).

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

Strub A, et al. *Mol Pharmacol*. 2006 Jan;69(1):328-37.

Lehner MD, et al. *J Pharmacol Exp Ther*. 2006 Apr;317(1):181-7.

Tiso M, et al. *Mol Pharmacol*. 2008 Apr;73(4):1244-53.

Higashi Y, et al. *Br J Pharmacol*. 2018 Jul 14. doi: 10.1111/bph.14445.

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

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