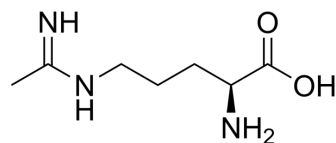


L-NIO

Cat. No.:	HY-100986B
CAS No.:	36889-13-1
Molecular Formula:	C ₇ H ₁₅ N ₃ O ₂
Molecular Weight:	173.21
Target:	NO Synthase
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	L-NIO is a potent, non-selective and NADPH-dependent nitric oxide synthase (NOS) inhibitor, with K _i s of 1.7, 3.9, 3.9 μM for neuronal (nNOS), endothelial (eNOS), and inducible (iNOS), respectively ^{[1][2]} . L-NIO induces a consistent focal ischemic infarct in rats ^[2] .
IC₅₀ & Target	K _i : 1.7 μM (nNOS), 3.9 μM (eNOS), 3.9 μM (iNOS) ^[1]
In Vitro	L-NIO is a potent, non-selective and NADPH-dependent nitric oxide synthase (NOS) inhibitor, with K _i s of 1.7, 3.9, 3.9 μM for neuronal (nNOS), endothelial (eNOS), and inducible (iNOS), respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	L-NIO (2.0 μmol, 3 days post-ischemia) causes focal cerebral ischemia in the adult rat brain ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cell Mol Gastroenterol Hepatol. 2021;11(3):683-696.

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REFERENCES

- [1]. Babu BR, et al. N5-(1-Imino-3-butenyl)-L-ornithine. A neuronal isoform selective mechanism-based inactivator of nitric oxide synthase. J Biol Chem. 1998 Apr 10;273(15):8882-9.
- [2]. Van Slooten AR, et al. L-NIO as a novel mechanism for inducing focal cerebral ischemia in the adult rat brain. J Neurosci Methods. 2015 Apr 30;245:44-57.

Caution: Product has not been fully validated for medical applications. For research use only.

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