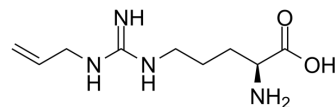


N ω -allyl-L-arginine

| | |
|--------------------|---|
| Cat. No.: | HY-115750 |
| CAS No.: | 139461-37-3 |
| Molecular Formula: | C ₉ H ₁₈ N ₄ O ₂ |
| Molecular Weight: | 214.26 |
| Target: | NO Synthase |
| Pathway: | Immunology/Inflammation |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|---------------------------|--|
| Description | N ω -allyl-L-arginine is a competitive and reversible inhibitor of bovine brain nitric oxide synthase (nNOS). N ω -allyl-L-arginine can inactivate nNOS in a time-dependent manner. N ω -allyl-L-arginine also is a substrate, producing L-arginine, acrolein, and H ₂ O ^{[1][2]} . |
| IC ₅₀ & Target | nitric oxide synthase (nNOS) ^[1] |

REFERENCES

- [1]. Zhang HQ, et, al. Mechanism of Inactivation of Neuronal Nitric Oxide Synthase by N ω -Allyl-L-Arginine. J. Am. Chem. Soc. 1997, 119, 45, 10888-10902.
- [2]. Hah JM, et, al. Deuterium isotope effects and product studies for the oxidation of N(omega)-allyl-L-arginine and N(omega)-allyl-N(omega)-hydroxy-L-arginine by neuronal nitric oxide synthase. Bioorg Med Chem. 2000 Aug;8(8):1931-6.

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

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