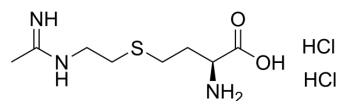


GW274150 dihydrochloride

Cat. No.:	HY-12119B
CAS No.:	438542-17-7
Molecular Formula:	C ₈ H ₁₉ Cl ₂ N ₃ O ₂ S
Molecular Weight:	292.23
Target:	NO Synthase
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

GW274150 (dihydrochloride) is a potent, selective, orally active and NADPH-dependent inhibitor of human inducible nitric oxide synthase (iNOS) (IC₅₀=2.19 μM; K_d=40 nM) and rat iNOS (ED₅₀=1.15 μM). GW274150 (dihydrochloride) displays less potency for both humans or rats endothelial NOS (eNOS) and neuronal NOS (nNOS). GW274150 (dihydrochloride) exerts a protective role in an acute model of lung injury inflammation^{[1][2][3]}.

CUSTOMER VALIDATION

- EMBO Mol Med. 2021 Jun 7;e13591.
- McGill University. 2023 Apr 5.

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REFERENCES

- [1]. Alderton WK, et al. GW274150 and GW273629 are potent and highly selective inhibitors of inducible nitric oxide synthase in vitro and in vivo. *Br J Pharmacol.* 2005 Jun;145(3):301-12.
- [2]. Broom L, et al. Neuroprotection by the selective iNOS inhibitor GW274150 in a model of Parkinson disease. *Free Radic Biol Med.* 2011 Mar 1;50(5):633-40.
- [3]. Dugo L, et al. Effects of GW274150, a novel and selective inhibitor of iNOS activity, in acute lung inflammation. *Br J Pharmacol.* 2004 Mar;141(6):979-87. *Epub* 2004 Feb

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

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