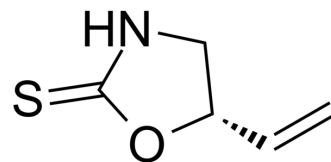


Goitrin

Cat. No.:	HY-N0224A
CAS No.:	500-12-9
Molecular Formula:	C ₅ H ₇ NOS
Molecular Weight:	129.18
Target:	Influenza Virus
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Goitrin ((S)-Goitrin), a product of glucosinolate-myrosinase reactions, is a potent inhibitor of thyroid peroxidase. Goitrin can inhibit iodine utilization by the thyroid. Goitrin also exhibits anti-influenza virus (H1N1) activity ^{[1][2][3]} .
In Vitro	Goitrin (0.1-1 μM; 72 h) exhibits dose-dependent anti-influenza virus (H1N1) activity in Madin-Darby canine kidney (MDCK) cells, with an IC ₅₀ of 0.19 μM ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Felker P, et, al. Concentrations of thiocyanate and goitrin in human plasma, their precursor concentrations in brassica vegetables, and associated potential risk for hypothyroidism. *Nutr Rev.* 2016 Apr;74(4):248-58.
- [2]. Wooding S, et, al. Genetics and bitter taste responses to goitrin, a plant toxin found in vegetables. *Chem Senses.* 2010 Oct;35(8):685-92.
- [3]. Nie LX, et, al. Antiviral activity of Isatidis Radix derived glucosinolate isomers and their breakdown products against influenza A in vitro/ovo and mechanism of action. *J Ethnopharmacol.* 2020 Apr 6;251:112550.

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

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