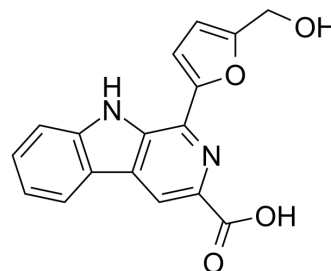


Flazin

Cat. No.:	HY-141508
CAS No.:	100041-05-2
Molecular Formula:	C ₁₇ H ₁₂ N ₂ O ₄
Molecular Weight:	308.29
Target:	Xanthine Oxidase; NO Synthase
Pathway:	Metabolic Enzyme/Protease; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Flazin is a non-enzymatic protein glycation inhibitor, also inhibits peroxynitrite (ONOO ⁻), with an IC ₅₀ value of 85.31 μM for bovine serum albumin (BSA) glycation and an EC ₅₀ value of 71.99 μM for ONOO ⁻ . Flazin can be used for researching diabetes and neuronal disorders. Flazin also can used as a lipid droplet (LD) regulator against lipid disorders, and a xanthine oxidase (XOD) inhibitor ^{[1][2][3]} .
IC₅₀ & Target	IC ₅₀ : 85.31 μM (BSA), 0.51 mM (XOD) ^{[1][2]} EC ₅₀ : 71.99 μM (ONOO ⁻) ^[1]
In Vitro	Flazin significantly decreases cellular triglyceride (TG) by 12.0-22.4% compared with modeling groups and improved the TG and free fatty acid profile ^[2] . Flazin efficiently reduces both cellular neutral lipid content by 17.4-53.9% and lipid droplets size by 10.0-35.3% ^[2] . Flazin exhibits xanthine oxidase inhibitory with an IC ₅₀ of 0.51 mM ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Seong SH, et al. Discovery of Flazin, an Alkaloid Isolated from Cherry Tomato Juice, As a Novel Non-Enzymatic Protein Glycation Inhibitor via In Vitro and in Silico Studies. *J Agric Food Chem*. 2021 Mar 31;69(12):3647-3657.
- [2]. Wu X, et al. Flazin as a Lipid Droplet Regulator against Lipid Disorders. *Nutrients*. 2022 Apr 3;14(7):1501.
- [3]. Li H, et al. Effect of Soy Sauce on Serum Uric Acid Levels in Hyperuricemic Rats and Identification of Flazin as a Potent Xanthine Oxidase Inhibitor. *J Agric Food Chem*. 2016 Jun 15;64(23):4725-34.

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

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