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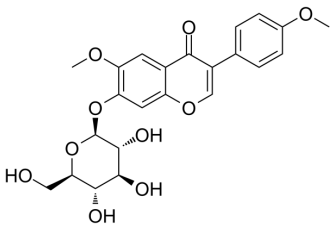
Wistin

Cat. No.:	HY-N9333
CAS No.:	19046-26-5
Molecular Formula:	$C_{23}H_{24}O_{10}$
Molecular Weight:	460.43
Target:	PPAR
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Wistin, isolated from Caragana sinica roots, is a PPARα and PPARγ agonist[1][2].
In Vitro	Wistin, is a PPARγ agonist that can induce the mRNA expression of the PPARγ target gene adiponectin in mouse 3T3-L1 cells [2]. Wistin inhibits cellular triglyceride accumulation in hepatocytes (P<0.05 at 10 μg/mL) in a dose-dependent manner[2]. Wistin (10 μg/mL) results in a 2.5-, 7.2-, and 14.8-fold increase in the expression levels of CPT1a, ACO, and ACS, respectively[2]. Treatment with Wistin for 48 h significantly decreases the amount of cellular TG in mouse primary hepatocytes in a dose-dependent manner[2]. Treatment with wistin enhanced the marker of adipocyte differentiation, such as triglyceride accumulation in 3T3-L1 cells[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

RT-PCR[2]

Cell Line:	Mouse hepatocytes.
Concentration:	1 or 10 μg/mL.
Incubation Time:	48 h.
Result:	Significantly increased PPARα mRNA levels in a dose-dependent manner.

REFERENCES

[1]. SeonJu Park, et al. Neuraminidase Inhibitors from the Roots of Caragana sinica. Chem Biodivers. 2020 Nov;17(11):e2000470.

[2]. Misato Suzuki, et al. 4',6-Dimethoxyisoflavone-7-O-β-D-glucopyranoside (wistin) is a peroxisome proliferator-activated receptor α (PPARα) agonist in mouse hepatocytes. Mol Cell Biochem. 2018 Sep;446(1-2):35-41.

[3]. Matoki Sanada, et al. 4',6-dimethoxyisoflavone-7-O-β-D-glucopyranoside (wistin) is a peroxisome proliferator-activated receptor γ (PPARγ) agonist that stimulates adipocyte differentiation. Anim Sci J. 2016 Nov;87(11):1347-1351.

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

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