

Product Data Sheet

Product Name: Hydrangeic acid

Cat. No.: GC79118

Chemical Properties

Cas. No. 491-79-2

Formula $C_{15}H_{12}O_4$

M.Wt 256.25

Solubility Storage Store at -20°C , stored under nitrogen

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Hydrangeic acid is an orally effective stilbene-type glycolipid metabolism regulator that lowers blood glucose and lipids. It can be isolated from processed leaves of *Hydrangea macrophylla* var. *thunbergii*. Hydrangeic acid is associated with glycolipid metabolism and insulin sensitivity regulation. Hydrangeic acid does not directly activate PPAR γ or PPAR α , but instead upregulates the mRNA expression of adiponectin, PPAR γ 2, GLUT4, and fatty acid-binding protein aP2, and downregulates TNF- α mRNA expression, promoting adipogenesis, glucose uptake, and GLUT4 translocation in 3T3-L1 cells. Simultaneously, Hydrangeic acid inhibits inflammatory factor-induced NO production, exerting activity in improving insulin resistance. Hydrangeic acid can be used in research related to

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

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type 2 diabetes and does not cause liver weight gain as a side effect.

References:

[1]. Zhang H, et al. Hydrangeic acid from the processed leaves of *Hydrangea macrophylla* var. *thunbergii* as a new type of anti-diabetic compound. *Eur J Pharmacol.* 2009 Mar 15;606(1-3):255-61.

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