

Product Data Sheet

Product Name: Thonningianin B

Cat. No.: GF01060

Chemical Properties

Cas. No. 271579-12-5

Formula C₃₅H₃₀O₁₇

M.Wt 722.61

Solubility DMSO : 66.67 mg/mL (92.26 mM; Need ultrasonic); Methanol : 62.5 mg/mL (86.49 mM; Need ultrasonic)

Storage 2-8°C, sealed storage, away from moisture

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

Thonningianin B is an antioxidant and an autophagy enhancer.

Thonningianin B shows strong scavenging action against the DPPH radical. The DPPH radical is scavenged completely by a 34.5 渭M solution of Thonningianin B. In a separate experiment, an IC₅₀ value of Thonningianin B is determined to be 21 渭M^[1].

Thonningianin B (0-100 渭M; 24 h) inhibits BV-2 cell viability with an IC₅₀ of 46.74 渭M^[2].

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

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Thonningianin B (10 μ M; 24 h) significantly improves the ratio of LC3-II/LC3-I and the average number of GFP-LC3 puncta per cell in BV-2 cells^[2].

[1]. Ohtani H, et al. Thonningianins A and B, new antioxidants from the African medicinal herb Thonningia sanguinea. J Nat Prod. 2000 May;63(5):676-9.

[2]. Zhou XG, et al. Targeting microglial autophagic degradation of the NLRP3 inflammasome for identification of thonningianin A in Alzheimer's disease. Inflamm Regen. 2022 Aug 3;42(1):25.

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