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 碌M solution of Thonningianin B. In a separate experiment, an IC_{50} 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 IC_{50} of 46.74 渭M[2].

Product Data Sheet

Thonningianin B (10 渭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 II, 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.

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA