

Product Data Sheet

Product Name: Hericene A

Cat. No.: GC81731

Chemical Properties

Cas. No. 157207-54-0

Formula C₃₅H₅₆O₅

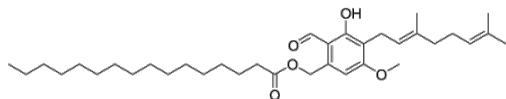
M.Wt 556.82

Solubility Storage Store at 4°C, protect from light

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

Hericene A is an orally active aromatic hericene derivative. Hericene A exhibits anti-inflammatory and neurotrophic activities, and can be found in the fruiting bodies of *Hericium erinaceus*. Hericene A inhibits the secretion of pro-inflammatory mediators. Hericene A promotes axonal growth, neurite branching, neurotrophic factor expression and downstream signal transduction. Hericene A can be used for the research of inflammatory and neurological diseases [1] [2].

In Vivo, Hericene A (5 mg/kg; p.o.; daily; 31 days) increases brain neurotrophin levels, activates neurotrophic signaling pathways, enhances synaptic marker expression, and improves recognition

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

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and spatial memory in healthy male ICR mice^[2].

In Vitro, Hericene A (0.5-100 μ M; 2 h pretreatment) inhibits LPS -induced secretion of TNF- α , IL-6 and NO in mouse RAW 264.7 macrophages, with IC₅₀ values of 78.50 μ M, 56.33 μ M and 87.31 μ M, respectively, and does not reduce cell viability at the tested concentrations^[1]. Hericene A (10 μ g/mL; 24 h) potently promotes axonal growth in primary hippocampal neurons isolated from E18 Sprague Dawley rats^[2].

References:

- [1]. Xie G, et al. Secondary Metabolites from *Herichium erinaceus* and Their Anti-Inflammatory Activities. *Molecules*. 2022 Mar 27;27(7):2157.
- [2]. Martínez-Mármol R, et al. Hericerin derivatives activates a pan-neurotrophic pathway in central hippocampal neurons converging to ERK1/2 signaling enhancing spatial memory. *J Neurochem*. 2023;165(6):791-808.

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