

Product Data Sheet

Product Name: Egg oil
Cat. No.: GC71976

Chemical Properties

Cas. No. 8001-17-0

Formula

M.Wt

Solubility

Storage -20°C

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

Egg oil

Background

Egg oil is a natural oil, which consists primarily of cholesterol, lecithin and glycerides of the fatty acids. Egg oil exhibits activity in regulating the gut microbial dysbiosis, alleviating obesity, insulin

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

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resistance and inflammation.

Egg oil (0.1-0.8 mg/ml) reduces IL-8 secretion and exerts anti-inflammatory efficacy through Nrf2/NF- κ B signaling pathway^[2].

Egg oil (10-600 μ g/ml) extracted from sea urchin attenuates 7 β -OHC induced cytotoxicity, modulates activity of antioxidant enzyme and reduces production of MDA and CD, exhibits thus protective efficacy against neurodegenerative diseases^[4].

Egg oil (150-600 mg/kg, i.g. for 16 weeks) extracted from *Portunus trituberculatus* improves insulin sensibility and hepatic glycogen synthesis, alleviates insulin resistance through activation of PI3K/Akt/Glu4 signaling in skeletal muscle and PI3K/Akt/GSK3 β /GS pathway in the liver^[1].

Egg oil (150-600 mg/kg, i.g. for 16 weeks) extracted from *Portunus trituberculatus* ameliorates HFD-induced obesity in mice, restores the gut microbial dysbiosis and down-regulates the LPS/TLR4 pathway in liver and epididymal adipose^[3].

References:

- [1]. Hu S, et al., Egg oil from *Portunus trituberculatus* alleviates insulin resistance through activation of insulin signaling in mice. *Appl Physiol Nutr Metab*. 2019 Oct;44(10):1081-1088.
- [2]. Xiao N, et al., Egg yolk oils exert anti-inflammatory effect via regulating Nrf2/NF- κ B pathway. *J Ethnopharmacol*. 2021 Jun 28;274:114070.
- [3]. Hu S, et al., Egg oil from *Portunus trituberculatus* alleviated obesity and regulated gut microbiota in mice. *Sci Rep*. 2020 May 21;10(1):8454.
- [4]. Zarrouk A, et al., 7 β -hydroxycholesterol-induced cell death, oxidative stress, and fatty acid metabolism dysfunctions attenuated with sea urchin egg oil. *Biochimie*. 2018 Oct;153:210-219.

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