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

resistance and inflammation.

Egg oil (0.1-0.8 mg/ml) reduces IL-8 secretion and exerts anti-inflammatory efficacy through Nrf2/NF-kB signaling pathway[2].
Egg oil (10-600 μg/ml) extracted from sea urchin attenuates 7β-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/GSK3β/GS pathway in the liver[1].
Egg oil (150-600 mg/kg, i.g. for 16 weeks) extracted from *Portunus trituberculatus* amliorates 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 fromPortunus 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-κB 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., 7β-hydroxycholesterol-induced cell death, oxidative stress, and fatty acid metabolism dysfunctions attenuated with sea urchin egg oil. Biochimie. 2018 Oct;153:210-219.