

Product Data Sheet

Product Name: 7-Hydroxycoumarin glucuronide

Cat. No.: GC79610

Chemical Properties

Cas. No. 66695-14-5

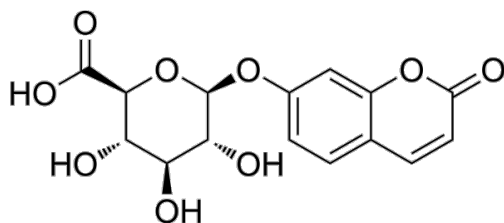
Formula $C_{15}H_{14}O_9$ M.Wt 338.27

Solubility DMSO: 50 mg/mL (147.81 mM; Need ultrasonic) Storage Store at -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



Background

7-Hydroxycoumarin glucuronide is a transport substrate and main human coumarin metabolite. [1] 7-Hydroxycoumarin glucuronide undergoes ATP-dependent efflux transport via MRP3 and MRP4. [1] 7-Hydroxycoumarin glucuronide undergoes active transport processes for urinary excretion and is primarily excreted into urine in humans. [1]

In Vitro, 7-Hydroxycoumarin glucuronide (400 μ M; 10-20 min) is a substrate of MRP3 (K_m = 187 μ M)

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

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and MRP4 ($K_m = 63 \mu\text{M}$) efflux transporters, but not of MRP1, MRP2, BCRP, or P-gp, as demonstrated by ATP-dependent uptake in MRP3- and MRP4-overexpressing membrane vesicles^[1].

References:

[1]. Wittgen HG, et al. Transport of the coumarin metabolite 7-hydroxycoumarin glucuronide is mediated via multidrug resistance-associated proteins 3 and 4. *Drug Metab Dispos.* 2012;40(6):1076-1079.

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