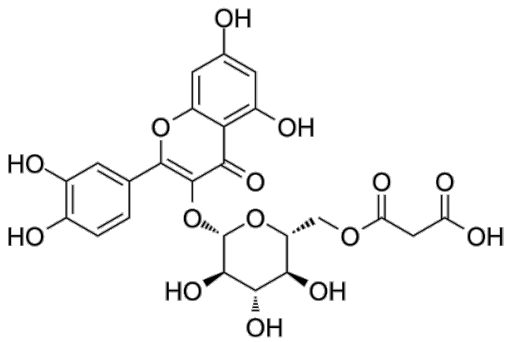
Product Data Sheet

Product Name: Quercetin 3-O-(6''-O-malonyl)-β-D-glucoside
Cat. No.: GC63164

Chemical Properties

Cas. No.	96862-01-0		
Formula	$C_{24}H_{22}O_{15}$	M.Wt	550.42
Solubility	DMSO : 33.33 mg/mL (60.55 mM; Need ultrasonic)	Storage	Store at 2-8°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

Product Data Sheet

Quercetin 3-O-(6''-O-malonyl)-β-D-glucoside is a flavonol glycoside derivative and an acylated glycoside of quercetin[1]. Quercetin 3-O-(6''-O-malonyl)-β-D-glucoside has excellent antioxidant activity in a cell-free environment, but does not exert the same protective effect in biological systems[2, 3]. Quercetin 3-O-(6''-O-malonyl)-β-D-glucoside is mainly found in leguminous plants (such as soybeans and alfalfa) and some medicinal plants[4].

References:

[1] Petrova N V, Chernonosov A A, Koval V V, et al. LC–HRMS for the identification of quercetin and its derivatives in Spiraea hypericifolia (Rosaceae) and anatomical features of its leaves[J]. Plants, 2023, 12(2): 381.
[2] Panat N A, Amrute B K, Bhattu S, et al. Antioxidant Profiling of C3 Quercetin Glycosides: Quercitrin, Quercetin 3-β-D-glucoside and Quercetin 3-O-(6”-O-malonyl)-β-Dglucoside in cell free environment[J]. Free Radicals and Antioxidants, 2015, 5(2): 90-100.
[3] Alizadeh S R, Ebrahimzadeh M A. O-Glycoside quercetin derivatives: Biological activities, mechanisms of action, and structure–activity relationship for drug design, a review[J]. Phytotherapy Research, 2022, 36(2): 778-807.
[4] Zhang Q, Zhao X, Qiu H. Flavones and flavonols: Phytochemistry and biochemistry[M]//Natural products. Springer, Berlin, Heidelberg, 2013: 1821-1847.

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