
Product Data Sheet

Product Name: 3,4,5-Tricaffeoylquinic acid
 Cat. No.: GN10406

Chemical Properties

Cas. No. 86632-03-3

Chemical Name (3R,5R)-3,4,5-tris[[(E)-3-(3,4-dihydroxyphenyl)prop-2-enoyl]oxy]-1-hydroxycyclohexane-1-carboxylic acid

SMILES C1C(C(C(CC1(C(=O)O)O)OC(=O)C=CC2=CC(=C(C=C2)O)O)OC(=O)C=CC3=CC(=C(C=C3)O)O)OC(=O)C=CC4=CC(=C(C=C4)O)O

Formula $C_{34}H_{30}O_{15}$

M.Wt

678.59

Solubility DMSO : 50 mg/mL (73.68 mM; Need ultrasonic)

Storage

General 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 Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.
 Condition

Structure

Background

3,4,5-Tricaffeoylquinic acid is isolated from barks of *Ilex rotunda* Thunb, used in the research of the pro-inflammatory mediator-induced skin disease[1].

3,4,5-Tricaffeoylquinic acid (0-50 μ M) reduces TNF- α -induced production of cytokines in HEK001 keratinocytes[1]. 3,4,5-Tricaffeoylquinic acid (15 μ M, 35 min) inhibits TNF- α -induced I κ B α phosphorylation and activation of NF- κ B[1].

References:

[1]. Lee CS, et al. 3,4,5-Tricaffeoylquinic acid inhibits tumor necrosis factor- α -stimulated production of inflammatory mediators in keratinocytes via suppression of Akt- and NF- κ B-pathways. *Int Immunopharmacol.* 2011 Nov;11(11):1715-23.

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

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