

Product Data Sheet

Product Name: trans-Isoferulic acid

Cat. No.: GC71862

Chemical Properties

Cas. No. 25522-33-2

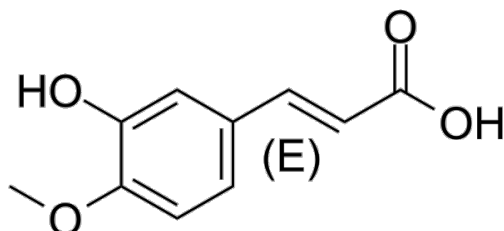
Formula $C_{10}H_{10}O_4$ M.Wt 194.19

Solubility DMSO : 100 mg/mL (514.96 mM; Need ultrasonic) Storage Store at 2-8°C, protect from light, stored under nitrogen

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

trans-Isoferulic acid (trans-3-Hydroxy-4-methoxycinnamic acid) is an aromatic acid isolated from the roots of *Clematis florida* var. *plena*. trans-Isoferulic acid exhibits anti-inflammatory activity. trans-Isoferulic acid suppresses NO and PGE2 production through the induction of Nrf2-dependent heme oxygenase-1 (HO-1).

References:

[1]. Kai-Hui Sun, et al. A new indole-type alkaloid from the roots of *Clematis florida* var. *plena*. Nat

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Prod Res. 2019 Oct;33(20):2925-2931.

[2]. Matharage Gayani Dilshara, et al. Downregulation of NO and PGE2 in LPS-stimulated BV2 microglial cells by trans-isoferulic acid via suppression of PI3K/Akt-dependent NF- κ B and activation of Nrf2-mediated HO-1. Int Immunopharmacol. 2014 Jan;18(1):203-11.

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