

Product Data Sheet

Product Name: Piperonylic acid

Cat. No.: GC61191

Chemical Properties

Cas. No. 94-53-1

SMILES O=C(C1=CC=C(OCO2)C2=C1)O

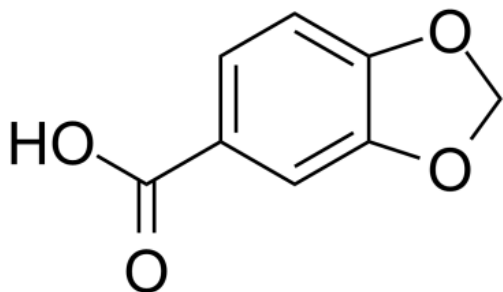
Formula $C_8H_6O_4$ M.Wt 166.13

Solubility DMSO : 100 mg/mL (601.94 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

Piperonylic acid is a natural molecule bearing a methylenedioxy function that closely mimics the structure of trans-cinnamic acid. Piperonylic Acid is a selective, mechanism-based inactivator of the trans-cinnamate 4-Hydroxylase[1].

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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[1]. Schalk M, et al, Werck-Reichhart D. Piperonylic acid, a selective, mechanism-based inactivator of the trans-cinnamate 4-hydroxylase: A new tool to control the flux of metabolites in the phenylpropanoid pathway. Plant Physiol. 1998;118(1):209-218.

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