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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

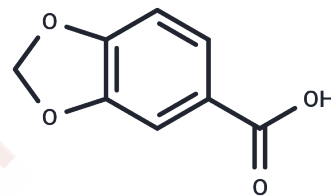
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Piperonylic acid

Chemical Properties

CAS No. :	94-53-1
Formula:	C ₈ H ₆ O ₄
Molecular Weight:	166.13
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Piperonylic acid (2H-1,3-benzodioxole-5-carboxylic acid) is a natural molecule bearing a methylenedioxy function that closely mimics the structure of trans-cinnamic acid. Piperonylic acid selectively inactivate the CYP73A P450 subpopulation.
Targets(IC50)	Cytochromes P450

Solubility Information

Solubility	DMSO: 55 mg/mL (331.07 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.0194 mL	30.0969 mL	60.1938 mL
5 mM	1.2039 mL	6.0194 mL	12.0388 mL
10 mM	0.6019 mL	3.0097 mL	6.0194 mL
50 mM	0.1204 mL	0.6019 mL	1.2039 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

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

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 36 Washington Street, Wellesley Hills, MA 02481