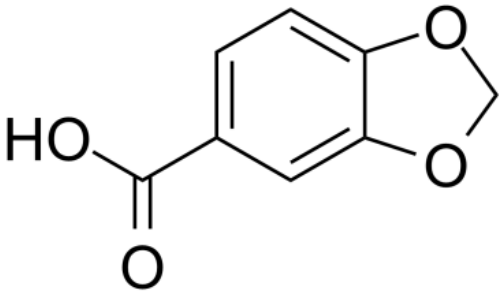
Product Data Sheet

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.
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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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