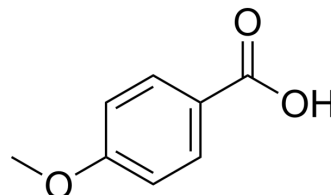


p-Anisic acid

Cat. No.:	HY-N1394	
CAS No.:	100-09-4	
Molecular Formula:	C ₈ H ₈ O ₃	
Molecular Weight:	152.15	
Target:	Bacterial; Endogenous Metabolite	
Pathway:	Anti-infection; Metabolic Enzyme/Protease	
Storage:	Powder	-20°C 3 years 4°C 2 years
	In solvent	-80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (657.25 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	6.5725 mL	32.8623 mL	65.7246 mL
	5 mM	1.3145 mL	6.5725 mL	13.1449 mL
	10 mM	0.6572 mL	3.2862 mL	6.5725 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (16.43 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (16.43 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (16.43 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

p-Anisic acid (4-Methoxybenzoic acid) is an isomer of Anisic acid and has antioxidant, anti-inflammatory, anti-tumor and antiseptic properties. p-Anisic acid can be used as a preservative in cosmetics^{[1][2]}.

IC₅₀ & Target

Human Endogenous Metabolite

CUSTOMER VALIDATION

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- bioRxiv. 2023 Jun 3.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. DeWeerd K, et al. Metabolism of the 18O-methoxy substituent of 3-methoxybenzoic acid and other unlabeled methoxybenzoic acids by anaerobic bacteria. Appl Environ Microbiol. 1988 May;54(5):1237-42.

[2]. Gandhi P J, et al. Transmission of p-anisic acid through nanofiltration and goat membranes[J]. Desalination, 2013, 315: 46-60.

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

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