2-Furoylglycine

Cat. No.: HY-113340

CAS No.: 5657-19-2

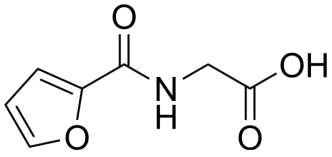
Molecular Formula: $C_7H_7NO_4$

Molecular Weight: 169.13

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

Storage: -20°C, protect from light, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (591.26 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	5.9126 mL	29.5631 mL	59.1261 mL
	5 mM	1.1825 mL	5.9126 mL	11.8252 mL
	10 mM	0.5913 mL	2.9563 mL	5.9126 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (14.78 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (14.78 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (14.78 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

2-Furoylglycine, a urinary metabolite in human, is a putative biomarker for coffee consumption[1].

IC_{50} & Target

Human Endogenous Metabolite	Microbial Metabolite

In Vitro

2-Furoylglycine is an intermediate that can be used in the synthesis of non-nucleoside inhibitors of HCV NS5b RNA polymerase[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Silke S Heinzmann, et al. 2-Furoylglycine as a Candidate Biomarker of Coffee Consumption. J Agric Food Chem. 2015 Sep 30;63(38):8615-21.

[2]. Stephen S Antonysamy, et al. Fragment-based discovery of hepatitis C virus NS5b RNA polymerase inhibitors. Bioorg Med Chem Lett. 2008 May 1;18(9):2990-5.

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