Data Sheet (Cat.No.TN7108)



Urolithin C

Chemical Properties

CAS No.: 165393-06-6

Formula: C13H8O5

Molecular Weight: 244.2

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Urolithin C is a gut metabolite of ellagic acid. Urolithin C induces apoptosis in PC12 cells through a mitochondria-mediated pathway.		
Targets(IC50)	Apoptosis,Calcium Channel,Reactive Oxygen Species,IGF-1R,Endogenous Metabolite		
In vitro	Urolithin C is a glucose-dependent activator of insulin secretion acting by facilitating L-type Ca2+ channel opening and Ca2+ influx into pancreatic β -cells.Urolithin C enhanced glucose-induced extracellular signal-regulated kinases 1/2 (ERK1/2) activation as shown by higher phosphorylation levels in INS-1 β -cells[2]. Urolithin C stimulates reactive oxygen species (ROS) formation[2].		
In vivo	In male Wistar rat, the half-life of the terminal part is 11.3 h and the total clearance (CL/F) is 3.41 L/h/kg. The initial volume of distribution (V1/F) is 0.831 L/kg and the steady-state volume of distribution (Vss/F) is 55.6 L/kg after the intraperitoneal administration of Urolithin C (10 mg/kg)[3].		

Solubility Information

Solubility	DMSO: 50 mg/mL (204.75 mM), Sonication is recommended.	
	(< 1 mg/ml refers to the product slightly soluble or insoluble)	

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.095 mL	20.475 mL	40.950 mL
5 mM	0.819 mL	4.095 mL	8.190 mL
10 mM	0.4095 mL	2.0475 mL	4.095 mL
50 mM	0.0819 mL	0.4095 mL	0.819 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.

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Reference

Peipei Yin, et al. Urolithin C, a gut metabolite of ellagic acid, induces apoptosis in PC12 cells through a mitochondria-mediated pathway. RSC Advances. Issue 28, 2017.



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

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