Isocitric acid

Cat. No.: HY-113228

CAS No.: 320-77-4

Molecular Formula: $C_6H_8O_7$

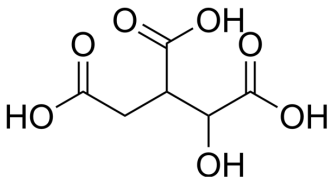
Molecular Weight: 192

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H_2O : 250 mg/mL (1302.08 mM; Need ultrasonic)

Preparing Stock Solutions	Concentration / Solvent / Mass	1 mg	5 mg	10 mg
	1 mM	5.2083 mL	26.0417 mL	52.0833 mL
	5 mM	1.0417 mL	5.2083 mL	10.4167 mL
	10 mM	0.5208 mL	2.6042 mL	5.2083 mL

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

BIOLOGICAL ACTIVITY

Description

Isocitric acid is an endogenous metabolite present in Saliva and Cellular_Cytoplasm that can be used for the research of Alzheimer's Disease, Lewy Body Dementia and Anoxia[1][2][3].

IC_{50} & Target

Human Endogenous Metabolite

In Vitro

Endogenous metabolites is defined as those that are annotated by Kyoto Encyclopedia of Genes and Genomes as substrates or products of the ~1900 metabolic enzymes encoded in our genome. It is clear in the body of literature that there are documented toxic properties for many of these metabolites[1].

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

CUSTOMER VALIDATION

- Cell Death Dis. 2023 Aug 15;14(8):520.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Tsuruoka M, et al. Capillary electrophoresis-mass spectrometry-based metabolome analysis of serum and saliva from neurodegenerative dementia patients. Electrophoresis. 2013 Oct;34(19):2865-72.

[2]. Zupke C, et al. Intracellular flux analysis applied to the effect of dissolved oxygen on hybridomas. Appl Microbiol Biotechnol. 1995 Dec;44(1-2):27-36.

[3]. Lee N, et al. Endogenous toxic metabolites and implications in cancer therapy. Oncogene. 2020 Aug;39(35):5709-5720.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA