Dimethyl 2-oxoglutarate

Cat. No.: HY-44134

CAS No.: 13192-04-6

Molecular Formula: $C_7H_{10}O_5$

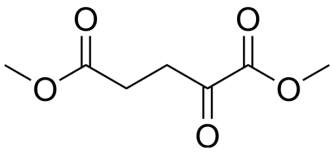
Molecular Weight: 174.15

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

Storage:

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



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (574.22 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	5.7422 mL	28.7109 mL	57.4218 mL
	5 mM	1.1484 mL	5.7422 mL	11.4844 mL
	10 mM	0.5742 mL	2.8711 mL	5.7422 mL

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

BIOLOGICAL ACTIVITY

Description

Dimethyl 2-oxoglutarate serves as a crucial intermediate in the Krebs cycle and an essential nitrogen carrier in metabolic pathways during biological processes. The electrochemical behavior of Dimethyl 2-oxoglutarate can be investigated using cyclic voltammetry, square wave voltammetry, and differential pulse voltammetry with a glassy carbon electrode[1].

IC_{50} & Target

Microbial Metabolite

REFERENCES

[1]. Shah A, et al. Electrochemical behaviour of dimethyl-2-oxoglutarate on glassy carbon electrode[J]. Bioelectrochemistry, 2010, 77(2): 145-150.

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

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