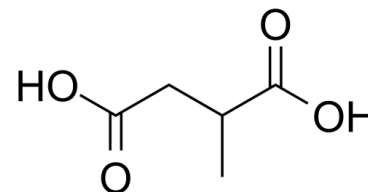


Data Sheet

Product Name:	2-Methylsuccinic acid
Cat. No.:	CS-W011097
CAS No.:	498-21-5
Molecular Formula:	C ₅ H ₈ O ₄
Molecular Weight:	132.12
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Solubility:	DMSO : ≥ 100 mg/mL (756.89 mM)



BIOLOGICAL ACTIVITY:

2-Methylsuccinic acid is a normal metabolite in human fluids and the main biochemical measurable features in ethylmalonic encephalopathy. **In Vitro:** 2-Methylsuccinic acid is a normal metabolite in human fluids and the main biochemical measurable features in ethylmalonic encephalopathy^[1]. The underlying biochemical defect involves isoleucine catabolism^[2].

References:

[1]. Grosso S, et al. Ethylmalonic encephalopathy: further clinical and neuroradiological characterization. J Neurol. 2002 Oct;249(10):1446-50.

[2]. Nowaczyk MJ, et al. Ethylmalonic and methylsuccinic aciduria in ethylmalonic encephalopathy arise from abnormal isoleucine metabolism. Metabolism. 1998 Jul;47(7):836-9.

CAIndexNames:

Butanedioic acid,2-methyl-

SMILES:

O=C(O)C(C)CC(=O)O

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

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