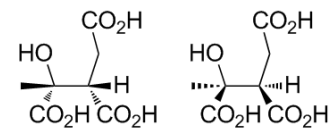


DL-threo-2-methylisocitrate

Cat. No.:	HY-16581
CAS No.:	71183-66-9
Molecular Formula:	C ₁₄ H ₂₀ O ₁₄
Molecular Weight:	412.3
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

DL-threo-2-methylisocitrate is a substrate of isocitrate lyase 1 (ICL1). IC50 value: Target: The Km of purified recombinant ICL1 for threo-D(s)L(s)-isocitrate (ICA) was determined to be 188 μM using Michaelis-Menten non-linear least squares fit, with a kcat of 5.24 s⁻¹. The Km for DL-threo-2-methylisocitrate (MICA) was approximately fourfold higher at 718 μM with a kcat of 1.25 s⁻¹.

REFERENCES

[1]. Gould TA, et al. Dual role of isocitrate lyase 1 in the glyoxylate and methylcitrate cycles in Mycobacterium tuberculosis. Mol Microbiol. 2006 Aug;61(4):940-7.

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

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