

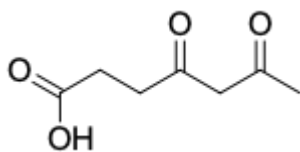
Succinylacetone

<http://www.lumiprobe.com/p/succinylacetone>

Succinylacetone (4,6-dioxoheptanoic acid), is a result of tyrosine metabolism disorder. The synthesis of this medium-chain keto acid in the body is due to the reduced activity of the enzyme fumarylacetoacetate hydrolase. Succinylacetone is an acidogen, its high concentrations can lead to metabolic acidosis, which leads to damage to the liver, kidneys, heart, and nervous system. Succinylacetone appears to be an oncometabolite because patients with high levels of this compound often develop hepatocellular carcinoma.

Succinylacetone is widely used in research as an inhibitor of the enzyme 5-aminolevulinic acid dehydratase (ALAD), which plays a key role in heme biosynthesis.

The product is used primarily as a control for MS/MS.



Structure of Succinylacetone

General properties

Appearance: white solid

Molecular weight: 158.15

CAS number: 51568-18-4

Molecular formula: C₇H₁₀O₄

Solubility: in water

Quality control: NMR ¹H, NMR ¹³C and GCMS (95+%)

Storage conditions: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

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