Lumiprobe Corporation
115 Airport Dr Suite 160
Westminster, Maryland 21157
USA
Phone: +1 888 973 6353
Fax: +1 888 973 6354
Email: order@lumiprobe.com

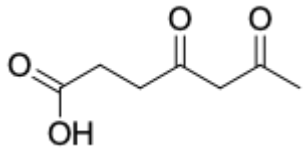
Succinylacetone

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:	$C_7H_{10}O_4$
Solubility:	in water
Quality control:	NMR ^{1}H, NMR ^{13}C and GCMS (95+%)
Storage conditions:	24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.