

### 3-(5-methyl-1H-pyrazol-3-yl)propionic acid-d6 (MPP)

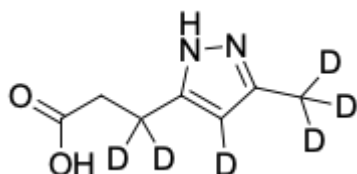
<http://hk.lumiprobe.com/p/sa-succinylacetone-pyrazol-d6>

Succinylacetone (abbreviated as SA) is a product of tyrosine catabolism, and an inhibitor of heme biosynthesis. Succinylacetone testing in dried neonatal blood spots, followed by quantitation of SA in blood or urine in high-risk neonates, has excellent sensitivity and specificity for the diagnosis of tyrosinemia type 1 [1].

Succinylacetone is a reactive diketone which reacts with the amino groups of peptides and proteins present in the blood. Therefore, extraction of the bound SA requires its conversion into a product suitable for its extraction and quantification. This is effected by means of hydrazine treatment which leads to a conversion of succinylacetone to this pyrazole derivative.

This pyrazole derivative is a deuterated derivative is used as an analytical standard in the measurement of succinylacetone (SA) in dried blood spot samples.

[1] Kehar M., Sen Sarma M., Seetharaman J., Jimenez Rivera C., Chakraborty P. Decoding hepatorenal tyrosinemia type 1: Unraveling the impact of early detection, NTBC, and the role of liver transplantation. Can Liver J. 2024. 7(1). P.54-63.



外观: 白色固體

分子量: 160.21

分子式:  $C_7H_4D_6N_2O_2$

溶解度: 在水中

质量控制: 收到後 -20°C 避光保存 24 個月。運輸: 室溫最多可保存3週。乾燥。

储存条件:

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