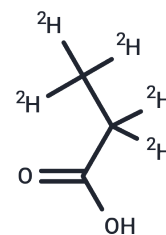


## Propionicacid-D5

## Chemical Properties

CAS No. :	60153-92-6
Formula:	C3D5H1O2
Molecular Weight:	79.11
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Propionicacid-D5 is a deuterated compound of Propionicacid. Propionicacid has a CAS number of 79-09-4. Propionic acid (PA) is widely used as an antifungal agent in food. It is present naturally at low levels in dairy products and occurs ubiquitously, together with other short-chain fatty acids (SCFA), in the gastro-intestinal tract of humans and other mammals as an end-product of the microbial digestion of carbohydrates. It has significant physiological activity in animals. PA is irritant but produces no acute systemic effects and has no demonstrable genotoxic potential. Propionic aciduria is one of the most frequent organic acidurias, a disease that comprise many various disorders. The outcome of patients born with Propionic aciduria (genetic disorder) is poor intellectual development patterns, with 60% having an IQ less than 75 and requiring special education. Successful liver and/or renal transplantations, in a few patients, have resulted in better quality of life but have not necessarily prevented neurological and various visceral complications. These results emphasize the need for permanent metabolic follow-up whatever the therapeutic strategy. Decreased early mortality, less severe symptoms at diagnosis, and more favorable short-term neurodevelopmental outcome were recorded in patients identified through expanded newborn screening.
Targets(IC50)	Others

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	12.6406 mL	63.2031 mL	126.4063 mL
5 mM	2.5281 mL	12.6406 mL	25.2813 mL
10 mM	1.2641 mL	6.3203 mL	12.6406 mL
50 mM	0.2528 mL	1.2641 mL	2.5281 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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