Product Data Sheet

Product Name: Hydroxypyruvic acid lithium hydrate
Cat. No.: GC63467

Chemical Properties

Cas. No.	209728-15-4		
Formula	$C_3H_5LiO_5$	M.Wt	128.01
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

Hydroxypyruvic acid lithium hydrate (β-Hydroxypyruvic acid lithium hydrate) is an intermediate in the metabolism of glycine, serine and threonine. Hydroxypyruvic acid lithium hydrate is a substrate for serine-pyruvate aminotransferase and glyoxylate reductase/hydroxypyruvate reductase. Hydroxypyruvic acid lithium hydrate is involved in the metabolic disorder which is the dimethylglycine dehydrogenase deficiency pathway.

Hydroxypyruvic acid (lithium hydrate) (intravenous injection; 100 mg/ml; slowly over 10 min) increases the 5-h urinary oxalate and glycolate excretion to 0.68% (6.56 μmol) and 0.53% (5.10 μmol) in control rats, in addition, it increases to 2.43% (23.36 μmol) and 0.79% (7.59 μmol) of the dose in the vitamin-B6-deficient rats[1].

[1]. Teerajetgul Y, et al. Oxalate synthesis from hydroxypyruvate in vitamin-B6-deficient rats.Urol Res. 2007 Aug;35(4):173-8. Epub 2007 Jun 13.

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