

Product Data Sheet

Product Name: Phosphoglycolic acid lithium

Cat. No.: GC73072

Chemical Properties

Cas. No.

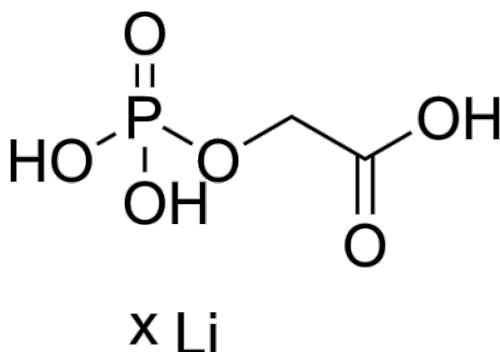
Formula $C_2H_5O_6P.xLi$ M.Wt 156.03 (free acid)

Solubility $H_2O : \geq 50 \text{ mg/mL}$ Storage -20°C , sealed storage, away from moisture

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C 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

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

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Phosphoglycolic acid (lithium) is a competitive inhibitor of phosphoglycerate mutase (PGAM)-B, an enzyme of the glycolytic pathway. Phosphoglycolic acid increases basal and fMLF-induced levels of G6P in intact neutrophils. Phosphoglycolic acid thereby increases upstream intermediates in neutrophils, thereby amplifying the respiratory oxidative burst.

References:

[1]. Shalom-Barak T, et al. A p21-activated kinase-controlled metabolic switch up-regulates phagocyte NADPH oxidase. J Biol Chem. 2002 Oct 25;277(43):40659-65.

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