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Zuschläge

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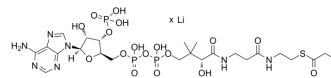
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Propionyl coenzyme A lithium

| | |
|---------------------------|---|
| Cat. No.: | HY-134424 |
| CAS No.: | 108321-21-7 |
| Molecular Formula: | C ₂₄ H ₄₀ N ₇ O ₁₇ P ₃ S.xLi |
| Target: | Endogenous Metabolite |
| Pathway: | Metabolic Enzyme/Protease |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

Description

Propionyl coenzyme A lithium, a coenzyme A derivative of propionic acid, is an important metabolic intermediate formed by the thioester bond between coenzyme A and propionic acid. The breakdown and production of Propionyl coenzyme A lithium is important for the metabolism of organisms^{[1][2]}.

In Vitro

Propionyl coenzyme A lithium causes toxic effects due to its accumulation and the impact of its metabolism on cell wall synthesis and maintenance in *Mycobacterium tuberculosis*^[1].
 Propionyl coenzyme A lithium can be converted to β-hydroxypropionic acid via a peroxisomal enzyme-modified β-oxidation pathway in *Arabidopsis*^[2].
 Propionyl coenzyme A lithium causes the formation of propionic acidemia due to its abnormal accumulation, which often occurs in the neonatal developmental stage^[3].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Ernesto J Muñoz-Elías, et al. Role of the methylcitrate cycle in *Mycobacterium tuberculosis* metabolism, intracellular growth, and virulence. *Mol Microbiol.* 2006 Jun;60(5):1109-22.
- [2]. Kerry A Lucas, et al. Peroxisomal metabolism of propionic acid and isobutyric acid in plants. *J Biol Chem.* 2007 Aug 24;282(34):24980-9.
- [3]. Oleg A Shchelochkov, et al. Propionic Acidemia. 2012 May 17 [updated 2016 Oct 6]. In: Adam MP, Everman DB, Mirzaa GM, Pagon RA, Wallace SE, Bean LJH, Gripp KW, Amemiya A, editors. *GeneReviews*® [Internet]. Seattle (WA): University of Washington, Seattle; 1993-2022.

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

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