



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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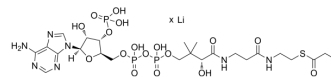
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## Propionyl coenzyme A lithium

|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-134424                                                                                                                        |
| CAS No.:           | 108321-21-7                                                                                                                      |
| Molecular Formula: | C <sub>24</sub> H <sub>40</sub> N <sub>7</sub> O <sub>17</sub> P <sub>3</sub> S.xLi                                              |
| Target:            | Endogenous Metabolite                                                                                                            |
| Pathway:           | Metabolic Enzyme/Protease                                                                                                        |
| Storage:           | -20°C, sealed storage, away from moisture<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



### SOLVENT & SOLUBILITY

|          |                                                           |
|----------|-----------------------------------------------------------|
| In Vitro | H <sub>2</sub> O : 50 mg/mL (Need ultrasonic and warming) |
|----------|-----------------------------------------------------------|

### 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 lithim is important for the metabolism of organisms <sup>[1][2]</sup> .                                                                                                                                                                                                                                                                                                                                                        |
| In Vitro    | <p>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<sup>[1]</sup>.</p> <p>Propionyl coenzyme A lithium can be converted to β-hydroxypropionic acid via a peroxisomal enzyme-modified β-oxidation pathway in Arabidopsis<sup>[2]</sup>.</p> <p>Propionyl coenzyme A lithium causes the formation of propionic acidemia due to its abnormal accumulation, which often occurs in the neonatal developmental stage<sup>[3]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> |

### 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.

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

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