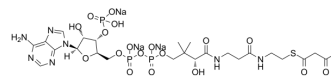


## Acetoacetyl coenzyme A sodium

<b>Cat. No.:</b>	HY-141475
<b>CAS No.:</b>	102029-52-7
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>37</sub> N <sub>7</sub> Na <sub>3</sub> O <sub>18</sub> P <sub>3</sub> S
<b>Molecular Weight:</b>	917.55
<b>Target:</b>	Endogenous Metabolite
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Acetoacetyl coenzyme A sodium is a central endogenous metabolite. The $K_m$ at pH 7.5 for Acetoacetyl coenzyme A sodium is 1.10 mM. Acetoacetyl coenzyme A sodium can be used for the synthesis of phosphotransbutyrylase (PTB) and poly-3-hydroxybutyrate (PHB) <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Microbial Metabolite

### REFERENCES

- [1]. Thompson DK, et al. Purification and properties of an acetoacetyl coenzyme A-reacting phosphotransbutyrylase from *Clostridium beijerinckii* ("*Clostridium butylicum*") NRRL B593. *Appl Environ Microbiol.* 1990 Mar;56(3):607-13.
- [2]. Chohan SN, et al. Acetoacetyl coenzyme A reductase and polyhydroxybutyrate synthesis in rhizobium (*Cicer*) sp. Strain CC 1192. *Appl Environ Microbiol.* 1998 Aug;64(8):2859-63.

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

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