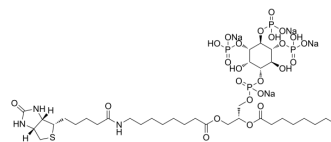


## PtdIns-(3,4,5)-P3-biotin sodium

<b>Cat. No.:</b>	HY-132276
<b>CAS No.:</b>	1415684-80-8
<b>Molecular Formula:</b>	C <sub>35</sub> H <sub>61</sub> N <sub>3</sub> Na <sub>4</sub> O <sub>24</sub> P <sub>4</sub> S
<b>Molecular Weight:</b>	1155.78
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	PtdIns-(3,4,5)-P3-biotin sodium is a Biotin-labeled PtdIns-(3,4,5)-P3 (PI(3,4,5)P3). PI(3,4,5)P3 is a substrate of nuclear phosphatidylinositol 5-phosphatase (PIP5Pase). PI(3,4,5)P3 binds to the N-terminus of RAP1 (repressor activator protein 1) and controls its DNA binding activity <sup>[1]</sup> .
<b>In Vitro</b>	Transient inactivation of PIP5Pase results in the accumulation of nuclear PI(3,4,5)P3, which binds RAP1 and displaces it from expression sites (ESs), activating transcription of silent ESs and variant surface glycoprotein (VSG) switching <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Touray AO, et al. PI(3,4,5)P3 allosteric regulation of repressor activator protein 1 controls antigenic variation in trypanosomes. *Elife*. 2023 Nov 29;12:RP89331.

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

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