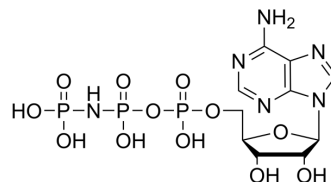


AMP-PNP

Cat. No.:	HY-130777
CAS No.:	25612-73-1
Molecular Formula:	C ₁₀ H ₁₇ N ₆ O ₁₂ P ₃
Molecular Weight:	506.2
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AMP-PNP (Adenylyl imidodiphosphate) is a non-hydrolysable ATP analogue ^[1] .
In Vitro	<p>AMP-PNP binding induces an inward rotation and shift of the transmembrane helices of LptFG and LptC to tighten the cavity, with the closure of two lateral gates, to eventually expel LPS into the bridge^[1].</p> <p>AMP-PNP significantly inhibits the ATPase activity of sLptB₂FGC, which was used to mimic and lock an ATP-bound state of sLptB₂FGC^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Tang X, et al. Cryo-EM structures of lipopolysaccharide transporter LptB₂FGC in lipopolysaccharide or AMP-PNP-bound states reveal its transport mechanism. Nat Commun. 2019 Sep 13;10(1):4175.

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

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