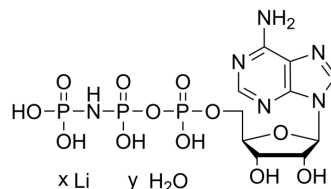


AMP-PNP lithium hydrate

| | |
|--------------------|--|
| Cat. No.: | HY-130777A |
| Molecular Formula: | $C_{10}H_{17}N_6O_{12}P_3 \cdot xLi \cdot yH_2O$ |
| Target: | Others |
| Pathway: | Others |
| Storage: | -20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



SOLVENT & SOLUBILITY

In Vitro H₂O : 50 mg/mL (Need ultrasonic and warming)

BIOLOGICAL ACTIVITY

Description AMP-PNP lithium hydrate is a non-hydrolyzable analog of ATP. AMP-PNP can replace ATP for biological research and is not hydrolyzed by intracellular enzymes. In the study of BtuCD-F, a vitamin B12 transporter, it was found that AMP-PNP can block the channel formed by the two BtuCDs of the BtuCD-F complex, thereby preventing the entry of vitamin B12^[1].

REFERENCES

[1]. Korkhov VM, et al. Structure of AMP-PNP-bound vitamin B12 transporter BtuCD-F. Nature. 2012 Oct 18;490(7420):367-72.

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

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