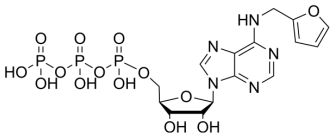
Kinetin triphosphate

Cat. No.:	HY-134398
CAS No.:	1450894-16-2
Molecular Formula:	$C_{15}H_{20}N_5O_{14}P_3$
Molecular Weight:	587.27
Target:	PINK1/Parkin
Pathway:	Autophagy; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Kinetin triphosphate(6-Fu-ATP; KTP) is an ATP analogue that regulates or enhances kinase function with higher catalytic efficiency than its endogenous substrate, ATP. Kinetin triphosphate can be used in Parkinson's disease research[1].
In Vitro	Kinetin triphosphate can act as a phosphate donor for PINK1 to recognize the T257 autophosphorylation site, and can restore the catalytic activity of PINK1 G309D to close to WT levels in HeLa cells in vitro[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Nicholas T Hertz, et al. A neo-substrate that amplifies catalytic activity of parkinson's-disease-related kinase PINK1. Cell. 2013 Aug 15;154(4):737-47.

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