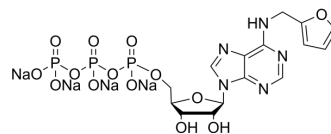


Kinetin triphosphate tetrasodium

Cat. No.:	HY-134398A
Molecular Formula:	C ₁₅ H ₁₆ N ₅ Na ₄ O ₁₄ P ₃
Molecular Weight:	675.19
Target:	PINK1/Parkin
Pathway:	Autophagy; Neuronal Signaling
Storage:	4°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 : 250 mg/mL (370.27 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.4811 mL	7.4053 mL	14.8106 mL
	5 mM	0.2962 mL	1.4811 mL	2.9621 mL
	10 mM	0.1481 mL	0.7405 mL	1.4811 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Kinetin triphosphate(6-Fu-ATP) tetrasodium is an ATP analogue that regulates or enhances kinase function with higher catalytic efficiency than its endogenous substrate, ATP. Kinetin triphosphate tetrasodium can be used in Parkinson's disease research^[1].

In Vitro

Kinetin triphosphate tetrasodium 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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA