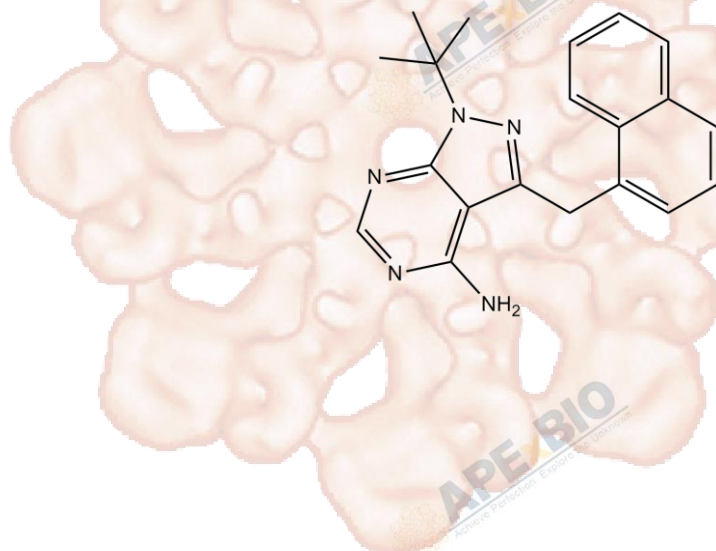


Product Data Sheet

1-NM-PP1

Cat. No.:	B1299
CAS No.:	221244-14-0
Formula:	C ₂₀ H ₂₁ N ₅
M.Wt:	331.41
Synonyms:	
Target:	Tyrosine Kinase
Pathway:	Src
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; ≥16.55 mg/mL in DMSO; ≥9.22 mg/mL in EtOH with gentle warming and ultrasonic

In Vitro

Preparing Stock Solutions	Mass			
	Solvent Concentration	1mg	5mg	10mg
	1 mM	3.0174 mL	15.0871 mL	30.1741 mL
	5 mM	0.6035 mL	3.0174 mL	6.0348 mL
	10 mM	0.3017 mL	1.5087 mL	3.0174 mL

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

Biological Activity

Shortsummary

Pp60c-src inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line: PDK1?? ES cells

Preparation method: This compound is soluble in DMSO. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Reacting conditions: 10 μM for 24h-72h; or 20 μM for 48h

	Applications:	1-NM-PP1 suppressed the phosphorylation of PDK1 targets in PDK1 ^{+/?} ES cells expressing PDK1 L159G but not WT PDK1. Moreover, 1-NM-PP1 inhibited sorbitol-induced MSK1 S212 T-loop phosphorylation, ERK/p38MAPK phosphorylation sites S581 and ERK/p38 dependent autophosphorylation at S376. 1-NM-PP1 also inhibited IGF1-stimulated PKB/Akt T308 phosphorylation and S6K activity in PDK1 ^{+/?} +LG ES cells.
In Vivo	Animal experiment	
	Applications:	

Product Citations

See more customer validations on www.apexbt.com.

References

1. Bishop, A. C., Ubersax, J. A., Petsch, D. T., Matheos, D. P., Gray, N. S., Blethrow, J., Shimizu, E., Tsien, J. Z., Schultz, P. G., Rose, M. D., Wood, J. L., Morgan, D. O. and Shokat, K. M. (2000) A chemical switch for inhibitor-sensitive alleles of any protein kinase. *Nature*. 407, 395-401
2. Tamguney, T., Zhang, C., Fiedler, D., Shokat, K. and Stokoe, D. (2008) Analysis of 3-phosphoinositide-dependent kinase-1 signaling and function in ES cells. *Exp Cell Res*. 314, 2299-2312

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX[®]BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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