1-NM-PP1

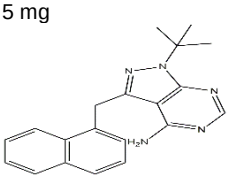
rev 03/19

ALTERNATE NAMES: 1-(1,1-dimethylethyl)-3-(1-naphthalenylmethyl)-1H-pyrazolo[3,4-d]pyrimidin-4-amine;
PP1 analog II

CATALOG #: B2346-1
B2346-5

AMOUNT: 1 mg
5 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{20}H_{21}N_5$

MOLECULAR WEIGHT: 331.41

CAS NUMBER: 221244-14-0

APPEARANCE: White solid

PURITY: ≥98% by HPLC

SOLUBILITY: >25 mg/ml (DMSO)

STORAGE: Store at -20℃. Protect from air and light

REFERENCES: Sugi T., et al. (2010). Eukaryot Cell 9, 667-670.

DESCRIPTION: 1-NM-PP1 is a cell-permeable PP1 analog that acts as a potent and selective inhibitor of mutant kinases over their wild-type progenitors. It inhibits multiple tyrosine kinase targets, such as v-Src (IC50 = 1 μM), c-Fyn (IC50 = 0.6 μM), c-Abl (IC50 = 0.6 μM), CDK2 (IC50: 18 μM), and CaMK II (IC50 = 22 μM). Additionally, 1-NM-PP1 is reported to be a potent and specific inhibitor of TrkB-F616A and TrkA-F592A signaling (IC50 values ~ 3 nM).

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

PP3 (1797)
PP2 (1767)
PP1 (1927)

DISCLAIMER: ***FOR RESEARCH USE ONLY! Not to be used on humans.***