

Cat No. 26-Q09

PP242

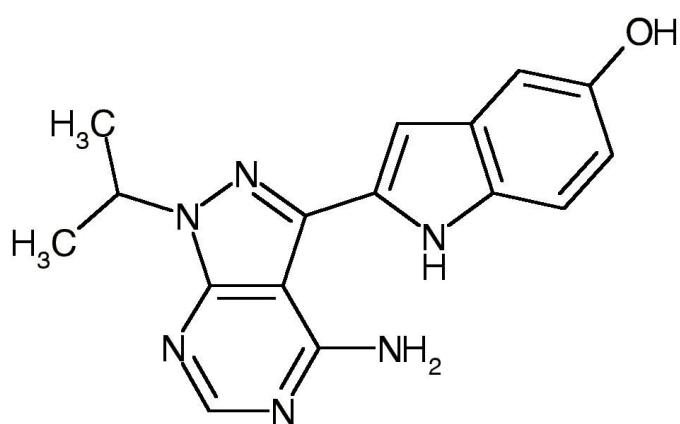
5 mg



For research purposes only

PP242 is a potent and selective inhibitor of mTOR, inhibitor, a Ser/Thr kinase and cell growth controller. PP242, but not Rapamycin has been shown to induce cell death in mouse and human leukemia cells *in vitro*. *In vivo*, PP242 delayed leukemia onset and enhanced the effects of the front-line tyrosine kinase inhibitors more effectively than rapamycin. PP242 has also been shown to significantly augment histone deacetylase inhibitor-induced apoptosis in hepatocellular carcinoma cells.

TECHNICAL INFORMATION



Other Names: Torkinib

Chemical Formula: C₁₆H₁₆N₆O

CAS Number: 1092351-67-1

Molecular Weight: 308.34

Purity: >98%

Appearance: a crystalline solid

Solubility: DMSO

STORAGE AND HANDLING

Storage: Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

Stability: Stock solutions stable at -20°C for up to 2 years.

Shipping Conditions: Shipped at room temperature.

PRODUCT USE

Soluble in DMSO. If precipitate is observed, vortex for 5 minutes. For most cells, the maximum tolerance to DMSO is less than 0.5%.

REFERENCES

1. Feldman et al. (2009) Active-site inhibitors of mTOR target rapamycin-resistant outputs of mTORC1 and mTORC2. *PLoS Biol.* 7(2):e38.
2. Menendez et al. (2011) mTOR-regulated senescence and autophagy during reprogramming of somatic cells to pluripotency: a roadmap from energy metabolism to stem cell renewal and aging. *Cell Cycle.* 10(21):3658-77.
3. Janes et al. (2010) Effective and selective targeting of leukemia cells using a TORC1/2 kinase inhibitor. *Nat Med.* 16(2):205-13.