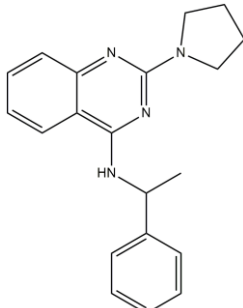


Importazole

ALTERNATE NAMES: N-(1-phenylethyl)-2-(pyrrolidin-1-yl)quinazolin-4-amine; IPZ

CATALOG #: B2958-5 5 mg
B2958-25 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₀H₂₂N₄

MOLECULAR WEIGHT: 318.42

CAS NUMBER: 662163-81-7

APPEARANCE: Solid

PURITY: >98%

SOLUBILITY: ~30 mg/ml in DMSO and DMF
~5 mg/ml in Ethanol

DESCRIPTION: Importazole is a 2,4-diaminoquinazoline that inhibits the function of transport receptor importin-β, likely by altering its interaction with RanGTP. Importazole prevents nuclear import of GFP-tagged nuclear factor of activated T cells (NFAT-GFP) in HEK293 cells with an IC₅₀ of 15 μM, which is reversible upon importazole washout. Importazole inhibits nuclear import of topoisomerase IIβ binding protein 1 (TopBP1) in Xenopus egg extracts and NF-κB in multiple myeloma cells. It induces apoptosis and inhibits growth of multiple myeloma cell lines with IC₅₀ values of 4.4 μM and 4.8 μM, respectively. It also induces defects in astral MT dynamics and misoriented spindles.

STORAGE TEMPERATURE: -20°C. Store in the dark. Product is light sensitive. Protect from air. Store under desiccating conditions.

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

REFERENCES:

1. Yan, W.Q., Du, J., Jiang, H., et al. Effect of nuclear receptor inhibitor importazole on the proliferation and apoptosis of multiple myeloma cells. *Zhonghua Xue Ye Xue Za Zhi* 34(4), 323-326 (2013).
2. Bai, L., Michael, W.M., and Yan, S. Importin β-dependent nuclear import of TopBP1 in ATR-Chk1 checkpoint in Xenopus egg extracts. *Cell. Signal.* 26(5), 857-867 (2015).
3. Bird, S.L., and Weis, K. RanGTP and CLASP1 cooperate to position the mitotic spindle. *Mol. Biol. Cell* 24(16), 2506-2514 (2013).
4. Soderholm, J.F., Bird, S.L., Kalab, P., et al. Importazole, a small molecule inhibitor of the transport receptor importin-β. *ACS Chem Biol.* 6(7), 700-708 (2011).

RELATED PRODUCTS:

Etoposide (Cat. No. 1043)
 Apoptozole (Cat. No. B2412)
 Camptothecin (Cat. No. 1039)
 Colchicine (Cat. No. 1519)
 Nocodazole (Cat. No. 2185)

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