



Catalog # 10-1412

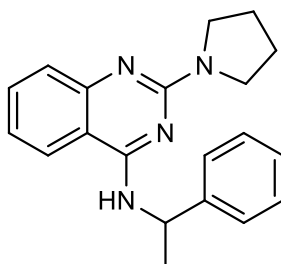
Importazole

662163-81-7

N-(1-Phenylethyl)-2-(pyrrolidin-1-yl)quinazolin-4-amine

IPZ

Lot # X105070



Specifically inhibits importin- β -mediated nuclear import without disrupting transportin-mediated nuclear import or CRM1-mediated nuclear export¹. When added to cells during mitosis it impairs the release of an importin- α cargo probe and causes defects in spindle assembly. Inhibition of importin- β function is most likely mediated by blocking its interaction with RanGTP. It is an important new tool to probe the function of the importin- α /RanGTP pathway²⁻⁴. Cell permeable

- 1) Soderholm *et al.* (2011), *Importazole, a small molecule inhibitor of the transport receptor importin- β* ; ACS Chem. Biol., **6** 700
- 2) Bird *et al.* (2013), *RanGTP and CLASP1 cooperate to position the mitotic spindle*; Mol. Biol. Cell, **24** 2506
- 3) Bai *et al.* (2014), *Importin β -dependent nuclear import of TopBP1 in ATR-Chk1 checkpoint in Xenopus egg extracts*; Cell Signal., **26** 857
- 4) Yan *et al.* (2015), *Importin β 1 mediates nuclear factor- κ B signal transduction into the nuclei of myeloma cells and affects their proliferation and apoptosis*; Cell Signal., **27** 851

PHYSICAL DATA

Molecular Weight:	318.43
Molecular Formula:	C ₂₀ H ₂₂ N ₄
Purity:	97% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 10 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at RT for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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