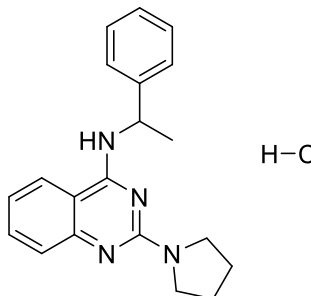


Product data sheet



MedKoo Cat#: 329642 Name: Importazole HCl CAS: Importazole HCl Chemical Formula: C ₂₀ H ₂₃ ClN ₄ Molecular Weight: 354.882	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.

1. Product description:

Importazole is a small molecule inhibitor of the transport receptor importin-β. Importazole specifically inhibits the function of importin-β, likely by altering its interaction with RanGTP. Importazole is a valuable tool to evaluate the function of the importin-β/RanGTP pathway at specific stages during the cell cycle.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
TBD	TBD	TBD

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.82 mL	14.09 mL	28.18 mL
5 mM	0.56 mL	2.82 mL	5.64 mL
10 mM	0.28 mL	1.41 mL	2.82 mL
50 mM	0.06 mL	0.28 mL	0.56 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

- Soderholm JF, Bird SL, Kalab P, Sampathkumar Y, Hasegawa K, Uehara-Bingen M, Weis K, Heald R. Importazole, a small molecule inhibitor of the transport receptor importin-β. ACS Chem Biol. 2011 Jul 15;6(7):700-8. doi: 10.1021/cb2000296. Epub 2011 Apr 21. PMID: 21469738; PMCID: PMC3137676.
- Yan WQ, Du J, Jiang H, Hou J. [Effect of nuclear receptor inhibitor importazole on the proliferation and apoptosis of multiple myeloma cells]. Zhonghua Xue Ye Xue Za Zhi. 2013 Apr;34(4):323-6. Chinese. doi: 10.3760/cma.j.issn.0253-2727.2013.04.016. PMID: 23668205.

In vivo study

TBD

7. Bioactivity

Biological target:

Importazole is a small molecule inhibitor of the transport receptor importin-β.

In vitro activity

Although importazole blocked the FRET interaction between CFP-RanGTP and YFP-importin-β in vitro, it did not obviously affect the binding of the two proteins in pull-down assays (Figure S1). To begin elucidating the mechanism of importazole action,

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importazole was tested to see if it could alter the ability of importin- β to protect RanGTP from RanGAP-stimulated hydrolysis in vitro. Binding curves calculated from these data do not indicate that importazole disrupts the RanGTP/importin- β interaction, and if anything, suggest that importazole may slightly stabilize the complex (Figure S3).

Reference: ACS Chem Biol. 2011 Jul 15;6(7):700-8. <https://www.ncbi.nlm.nih.gov/pmc/articles/pmid/21469738/>

In vivo activity

TBD

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.