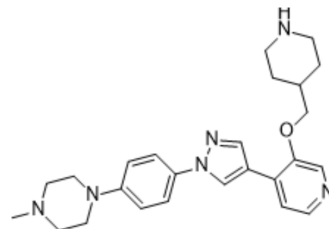


MELK-8a

Cat. No.:	HY-100368
CAS No.:	1922153-17-0
Molecular Formula:	C ₂₅ H ₃₂ N ₆ O
Molecular Weight:	432.56
Target:	MELK; PDGFR; Haspin Kinase
Pathway:	PI3K/Akt/mTOR; Protein Tyrosine Kinase/RTK; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

MELK-8a (NVS-MELK8a) is a highly potent and selective maternal embryonic leucine zipper kinase (MELK) inhibitor with IC₅₀ of 2 nM. MELK-8a also inhibits Flt3 (ITD), Haspin, PDGFR α with IC₅₀s of 0.18, 0.19, and 0.42 μ M, respectively. MELK plays an essential role in regulating cell mitosis in a subset of cancer cells^[1].

CUSTOMER VALIDATION

- Cell Rep. 2017 Dec 5;21(10):2829-2841.
- J Biol Chem. 2020 Feb 21;295(8):2359-2374.
- School of Medicine, Department of Pharmacology. 2020 Jun.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. B Barry Touré, et al. Toward the Validation of Maternal Embryonic Leucine Zipper Kinase: Discovery, Optimization of Highly Potent and Selective Inhibitors, and Preliminary Biology Insight. J Med Chem. 2016 May 26;59(10):4711-23.

Caution: Product has not been fully validated for medical applications. For research use only.

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