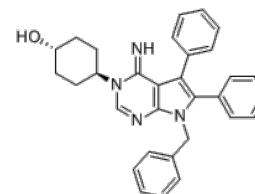


Product Name : Metarrestin
Cat. No. : PC-35083
CAS No. : 1443414-10-5
Molecular Formula : C₃₁H₃₀N₄O
Molecular Weight : 474.608
Target : Eukaryotic Initiation Factor (eIF)
Solubility :



Biological Activity

Metarrestin (ML246) is a specific inhibitor of **perinuclear compartment (PNC)**, disrupts PNCs in PC3M-GFP-PTB cells with IC₅₀ of 0.39 uM, specifically binds **eEF1A2**; reduces PNC prevalence in different human cancer cell lines at 1 uM (IC₁₀₀ for PC3M cells) for 24 hours; disrupts the nucleolar structure and inhibits RNA polymerase (Pol) I transcription, by interacting with the translation elongation factor eEF1A2 inhibits cancer cell invasion in vitro, suppresses metastatic development in three mouse models of human cancer, and extends survival of mice in a metastatic pancreatic cancer xenograft model with no organ toxicity or discernable adverse effects.

References

Frankowski KJ, et al. Sci Transl Med. 2018 May 16;10(441). pii: eaap8307.

Frankowski K, et al. Discovery and Development of Small Molecules That Reduce PNC Prevalence. Probe Reports from the NIH Molecular Libraries Program [Internet].

Rocchi A, et al. PLoS Genet. 2017 Aug 14;13(8):e1006962.

Kuramoto K, et al. Autophagy. 2016 Sep;12(9):1460-71.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com