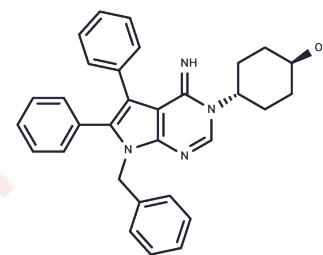


Metarrestin

Chemical Properties

CAS No. :	1443414-10-5
Formula:	C ₃₁ H ₃₀ N ₄ O
Molecular Weight:	474.6
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Metarrestin (ML246) is a first-in-class perinucleolar compartment inhibitor with a favorable PK profile, which effectively suppresses metastasis. Metarrestin disrupts the nucleolar structure and inhibits RNA polymerase (Pol) I transcription, at least in part by interacting with the translation elongation factor eEF1A2.
Targets(IC50)	DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: 4.75 mg/mL (10.01 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.107 mL	10.5352 mL	21.0704 mL
5 mM	0.4214 mL	2.107 mL	4.2141 mL
10 mM	0.2107 mL	1.0535 mL	2.107 mL
50 mM	0.0421 mL	0.2107 mL	0.4214 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Vilimas T, et al. Pharmacokinetic evaluation of the PNC disassembler metarrestin in wild-type and Pdx1-Cre;LSL-KrasG12D/+;Tp53R172H/+ (KPC) mice, a genetically engineered model of pancreatic cancer. *Cancer Chemother Pharmacol.* 2018 Dec;82(6):1067-1080.

Cerrato G, Liu P, Zhao L, et al. AI-based classification of anticancer drugs reveals nucleolar condensation as a predictor of immunogenicity. *Molecular Cancer.* 2024, 23: 275.

Frankowski KJ, et al. Metarrestin, a perinucleolar compartment inhibitor, effectively suppresses metastasis. *Sci Transl Med.* 2018 May 16;10(441).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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