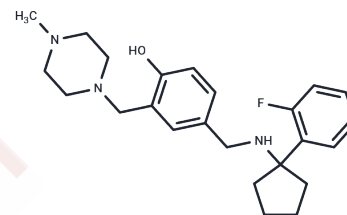


ARN5187

Chemical Properties

CAS No. :	1287451-26-6
Formula:	C ₂₄ H ₃₂ FN ₃ O
Molecular Weight:	397.53
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	ARN5187 is a lysosomal compound, REV-ERB β Ligand. ARN5187 inhibits REV-ERB-mediated transcriptional regulation and autophagy. ARN5187 shows lysosomal efficacy and cytotoxicity, and can induce apoptosis.
Targets(IC50)	Apoptosis,Others,Autophagy
In vitro	ARN5187 (compound 1) (0-100 μ M; 48 h) demonstrates cytotoxicity with an EC ₅₀ of 23.5 μ M in BT-474 cells and IC ₅₀ values of 30.14 μ M and >100 μ M in BT-474 and HMEC cells, respectively [1][2]. In HEK-293 cells, ARN5187 (0-100 μ M) activates the RevRE reporter in a concentration-dependent manner [1]. ARN5187 (25, 50 μ M) exhibits lysosomotropic-independent REV-ERB antagonistic activity [1], and at 50 μ M (24 h), it shows autophagy inhibition and affects autophagy formation and maturation [1]. In BT-474 cells, ARN5187 significantly enhances the expression of BMAL1, PER1, and PEPCK in a dose-dependent manner (25, 50 μ M), and at 50 μ M (24 h), significantly increases the expression of α -LC3-II, α -p62, and α -Cleaved PARP [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5155 mL	12.5777 mL	25.1553 mL
5 mM	0.5031 mL	2.5155 mL	5.0311 mL
10 mM	0.2516 mL	1.2578 mL	2.5155 mL
50 mM	0.0503 mL	0.2516 mL	0.5031 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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