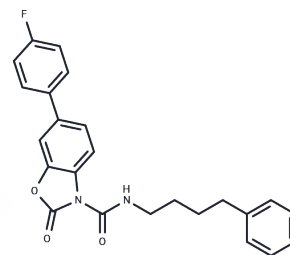


ARN14974

## Chemical Properties

CAS No. : 1644158-57-5  
 Formula: C<sub>24</sub>H<sub>21</sub>FN<sub>2</sub>O<sub>3</sub>  
 Molecular Weight: 404.43  
 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	ARN14974 is a benzoxazolone carboxamide. ARN14974 is a potent inhibitor of acid ceramidase with IC <sub>50</sub> of 79 nM[1].
Targets(IC <sub>50</sub> )	Others

## Solubility Information

Solubility	DMSO: 15 mg/mL (37.09 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1 mg/mL (2.47 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4726 mL	12.3631 mL	24.7262 mL
5 mM	0.4945 mL	2.4726 mL	4.9452 mL
10 mM	0.2473 mL	1.2363 mL	2.4726 mL
50 mM	0.0495 mL	0.2473 mL	0.4945 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

Bach A, Pizzirani D, Realini N, Vozella V, Russo D, Penna I, Melzig L, Scarpelli R, Piomelli D. Benzoxazolone Carboxamides as Potent Acid Ceramidase Inhibitors: Synthesis and Structure-Activity Relationship (SAR) Studies. J Med Chem. 2015 Dec 10;58(23):9258-72. doi: 10.1021/acs.jmedchem.5b01188. Epub 2015 Nov 23.

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