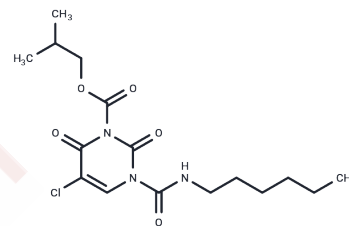


ARN14988

## Chemical Properties

CAS No. : 1502027-70-4  
 Formula: C<sub>16</sub>H<sub>24</sub>ClN<sub>3</sub>O<sub>5</sub>  
 Molecular Weight: 373.83  
 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	ARN14988 is a potent inhibitor of acid ceramidase (IC <sub>50</sub> = 12.8 nM for the human enzyme). It inhibits acid ceramidase activity and increases levels of C16 dihydro ceramide and C16 ceramide in A375, G361, M14, MeWo, MNT-1, and SK-MEL-28 melanoma cells. ARN14988 also reduces growth of A375 and G361 melanoma cells (EC <sub>50</sub> s = 41.8 and 67.7 μM, respectively).
Targets(IC <sub>50</sub> )	Others

## Solubility Information

Solubility	DMSO: 30 mg/mL (80.25 mM),Sonication is recommended. DMF: 30 mg/mL (80.25 mM),Sonication is recommended. Ethanol: Slightly soluble DMSO:PBS (pH 7.2) (1:2): 0.33 mg/mL (0.88 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	2.675 mL	13.3751 mL	26.7501 mL
5 mM	0.535 mL	2.675 mL	5.350 mL
10 mM	0.2675 mL	1.3375 mL	2.675 mL
50 mM	0.0535 mL	0.2675 mL	0.535 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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