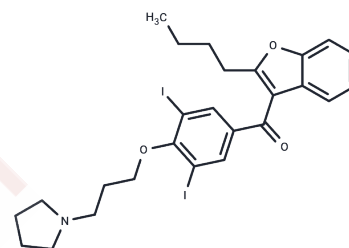


ADTL-SA1215

## Chemical Properties

CAS No. : 782387-91-1  
 Formula: C<sub>26</sub>H<sub>29</sub>I<sub>2</sub>NO<sub>3</sub>  
 Molecular Weight: 657.32  
 Storage: Store at low temperature  
 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	ADTL-SA1215 is a selective SIRT3 activator with SIRT3 deacetylase activity that inhibits the proliferation and migration of human breast cancer MDA-MB-231 cells through the SIRT3-driven autophagy/mitochondrial autophagy signaling pathway, and can be used in the study of triple negative breast cancer.
Targets(IC50)	Sirtuin

## Solubility Information

Solubility	DMSO: 80 mg/mL (121.71 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 (1.52 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	1.5213 mL	7.6066 mL	15.2133 mL
5 mM	0.3043 mL	1.5213 mL	3.0427 mL
10 mM	0.1521 mL	0.7607 mL	1.5213 mL
50 mM	0.0304 mL	0.1521 mL	0.3043 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

Zhang J, et al. Structure-Guided Design of a Small-Molecule Activator of Sirtuin-3 that Modulates Autophagy in Triple Negative Breast Cancer. J Med Chem. 2021 Oct 14;64(19):14192-14216.

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