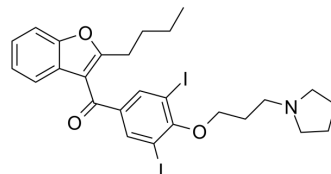


## ADTL-SA1215

Cat. No.:	HY-139742		
CAS No.:	782387-91-1		
Molecular Formula:	C <sub>26</sub> H <sub>29</sub> I <sub>2</sub> NO <sub>3</sub>		
Molecular Weight:	657.32		
Target:	Sirtuin		
Pathway:	Cell Cycle/DNA Damage; Epigenetics		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



## SOLVENT & SOLUBILITY

### In Vitro

DMSO : 100 mg/mL (152.13 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

Please refer to the solubility information to select the appropriate solvent.

### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: 1.25 mg/mL (1.90 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: 1.25 mg/mL (1.90 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 1.25 mg/mL (1.90 mM); Clear solution

## BIOLOGICAL ACTIVITY

### Description

ADTL-SA1215 is a first-in-class specific small-molecule activator of SIRT3 that modulates autophagy in triple negative breast cancer.

## REFERENCES

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[1]. 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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**Caution: Product has not been fully validated for medical applications. For research use only.**

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