

(3R,4R)-A2-32-01

## Chemical Properties

CAS No. : 1359752-95-6

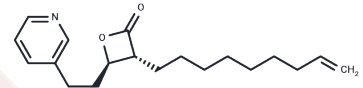
Formula: C<sub>19</sub>H<sub>27</sub>NO<sub>2</sub>

Molecular Weight: 301.42

Store at low temperature

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	(3R,4R)-A2-32-01 is the (R,R)-enantiomer of A2-32-01 and has potential antibacterial activity.
Targets(IC50)	Antibacterial, Protease
In vitro	(3R,4R)-A2-32-01 inhibits hemolysis with an ED50 of 15 nmol on blood agar plates. It exhibits EC50s of 50 μM and 75 μM in dropping metabolic activity of HaCat keratinocytes and NIH3T3 fibroblasts, respectively.

## Solubility Information

Solubility	DMSO: 150 mg/mL (497.64 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (16.59 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

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	1mg	5mg	10mg
1 mM	3.3176 mL	16.5881 mL	33.1763 mL
5 mM	0.6635 mL	3.3176 mL	6.6353 mL
10 mM	0.3318 mL	1.6588 mL	3.3176 mL
50 mM	0.0664 mL	0.3318 mL	0.6635 mL

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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

Zeiler E, et al. Development and characterization of improved  $\beta$ -lactone-based anti-virulence drugs targeting ClpP. *Bioorg Med Chem.* 2012 Jan 15;20(2):583-91.

Gersch M, et al. The mechanism of caseinolytic protease (ClpP) inhibition. *Angew Chem Int Ed Engl.* 2013 Mar 4;52(10):3009-14.

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