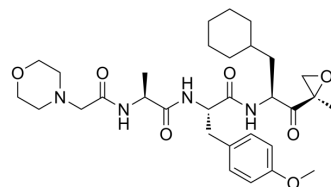


## LU-005i

Cat. No.:	HY-148732		
CAS No.:	1620107-33-6		
Molecular Formula:	C <sub>31</sub> H <sub>46</sub> N <sub>4</sub> O <sub>7</sub>		
Molecular Weight:	586.72		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO :  $\geq 100$  mg/mL (170.44 mM)  
 \* " $\geq$ " means soluble, but saturation unknown.

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.7044 mL	8.5220 mL	17.0439 mL
	5 mM	0.3409 mL	1.7044 mL	3.4088 mL
	10 mM	0.1704 mL	0.8522 mL	1.7044 mL

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

### BIOLOGICAL ACTIVITY

#### Description

LU-005i is a potent inhibitor of  $\beta 5i$  subunit of immunoproteasomes ( $IC_{50} = 6.6$  nM), selective over  $\beta 5c$  subunit ( $IC_{50} = 287$  nM) [1].

#### IC<sub>50</sub> & Target

$\beta 5i$  subunit of immunoproteasomes ( $IC_{50} = 6.6$  nM),  $\beta 5c$  subunit of immunoproteasomes ( $IC_{50} = 287$  nM)<sup>[1]</sup>

### REFERENCES

[1]. Rezvan Moallemian, et al. Immunoproteasome inhibitor DPLG3 attenuates experimental colitis by restraining NF- $\kappa$ B activation. *Biochem Pharmacol.* 2020 Jul;177:113964.

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

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