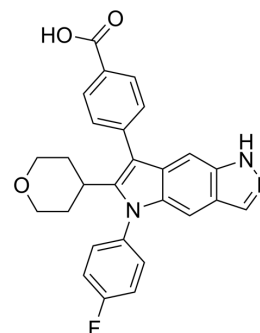


## A1AT modulator 2

<b>Cat. No.:</b>	HY-134863		
<b>CAS No.:</b>	2555004-05-0		
<b>Molecular Formula:</b>	C <sub>27</sub> H <sub>22</sub> FN <sub>3</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	455.48		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 50 mg/mL (109.77 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.1955 mL	10.9774 mL	21.9549 mL
		5 mM	0.4391 mL	2.1955 mL	4.3910 mL
10 mM		0.2195 mL	1.0977 mL	2.1955 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.49 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.49 mM); Suspended solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

<b>Description</b>	A1AT modulator 2 (compound 33) is a modulator of A1AT (α-1 antitrypsin) with an IC <sub>50</sub> value of 1.0 μM and an EC <sub>50</sub> value of 0.4 μM. A1AT modulator 2 can be used for the research of infection and inflammation <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 1.0 μM (A1AT) <sup>[1]</sup>

### REFERENCES

[1]. Bandarage, Upul Keerthi, et al. Pyrrolo[2,3-f]indazole derivatives as modulators of α-1 antitrypsin and their preparation. US20200361939. 2020.

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

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