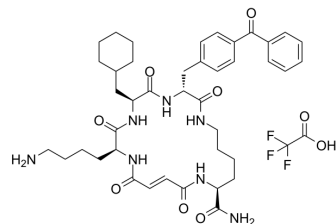


## 6bK TFA

<b>Cat. No.:</b>	HY-110197
<b>CAS No.:</b>	1774353-12-6
<b>Molecular Formula:</b>	C <sub>43</sub> H <sub>56</sub> F <sub>3</sub> N <sub>7</sub> O <sub>9</sub>
<b>Molecular Weight:</b>	871.94
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (114.69 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	1.1469 mL	5.7343 mL	11.4687 mL
		5 mM	0.2294 mL	1.1469 mL	2.2937 mL
10 mM		0.1147 mL	0.5734 mL	1.1469 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 (2.87 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (2.87 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	6bK TFA is a potent and selective insulin degrading enzyme (IDE) inhibitor with an IC <sub>50</sub> value of 50 nM. 6bK TFA increases circulating insulin in high-fat-fed mice. Acute administration of 6bK TFA enhances glucose tolerance to oral glucose, notably to a greater extent in high-fat-fed mice <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 50 nM (IDE) <sup>[1]</sup>

### REFERENCES

[1]. Costes S, Butler PC. Insulin-degrading enzyme inhibition, a novel therapy for type 2 diabetes?. Cell Metab. 2014;20(2):201-203.

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

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