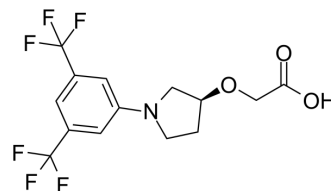


## RBP4 inhibitor 1

<b>Cat. No.:</b>	HY-143793
<b>CAS No.:</b>	1198180-03-8
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>13</sub> F <sub>6</sub> NO <sub>3</sub>
<b>Molecular Weight:</b>	357.25
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 250 mg/mL (699.79 mM; Need ultrasonic)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	2.7992 mL	13.9958 mL	27.9916 mL	
5 mM	0.5598 mL	2.7992 mL	5.5983 mL	
10 mM	0.2799 mL	1.3996 mL	2.7992 mL	

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

### BIOLOGICAL ACTIVITY

#### Description

RBP4 inhibitor 1 (compound 43b) is a potent and orally active retinol-binding protein 4 (RBP4) inhibitor with IC<sub>50</sub>s of 28 nM and 110 nM for human and mouse RBP4. RBP4 inhibitor 1 has a potent and long-lasting blood RBP4-level-reducing effect in mice<sup>[1]</sup>.

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

IC<sub>50</sub>: 28 nM (human RBP4) and 110 nM (mouse RBP4)<sup>[1]</sup>

### REFERENCES

[1]. Shinji Nakamura, et al. Discovery of phenylpyrrolidine derivatives as a novel class of retinol binding protein 4 (RBP4) reducers. *Bioorg Med Chem*. 2022 Jan 15;54:116553.

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

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