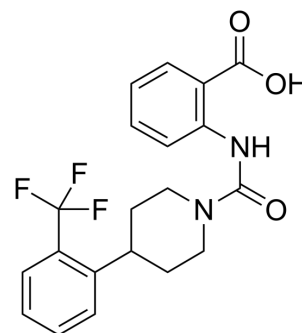


## A 1120

<b>Cat. No.:</b>	HY-107633		
<b>CAS No.:</b>	1152782-19-8		
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>19</sub> F <sub>3</sub> N <sub>2</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	392.37		
<b>Target:</b>	Transthyretin (TTR)		
<b>Pathway:</b>	Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (254.86 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM		2.5486 mL	12.7431 mL	25.4861 mL
		5 mM		0.5097 mL	2.5486 mL	5.0972 mL
10 mM			0.2549 mL	1.2743 mL	2.5486 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 >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.37 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	A 1120 is a high-affinity nonretinoid retinol-binding protein 4 (RBP4) antagonist with a K <sub>i</sub> value of 8.3 nM. A 1120 disrupts the interaction between RBP4 and its binding partner transthyretin <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Ki: 8.3 nM (Retinol-binding protein 4) <sup>[1]</sup>
<b>In Vitro</b>	The IC <sub>50</sub> of A 1120 is 90 nM on human RBP4 and 66 nM on mouse RBP4 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Motani A, et al. Identification and characterization of a non-retinoid ligand for retinol-binding protein 4 which lowers serum retinol-binding protein 4 levels in vivo. J

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Biol Chem. 2009 Mar 20;284(12):7673-80.

[2]. Dobri N, et al. A1120, a nonretinoid RBP4 antagonist, inhibits formation of cytotoxic bisretinoids in the animal model of enhanced retinal lipofuscinogenesis. Invest Ophthalmol Vis Sci. 2013 Jan 7;54(1):85-95.

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

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