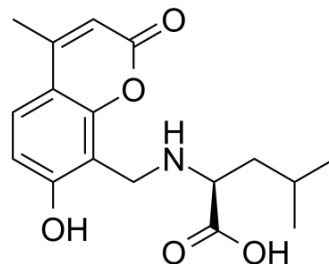


## AF40431

<b>Cat. No.:</b>	HY-124673		
<b>CAS No.:</b>	181125-92-8		
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>21</sub> NO <sub>5</sub>		
<b>Molecular Weight:</b>	319.35		
<b>Target:</b>	Neurotensin Receptor		
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 25 mg/mL (78.28 mM; ultrasonic and adjust pH to 1 with TFA)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.1314 mL	15.6568 mL	31.3136 mL
	5 mM	0.6263 mL	3.1314 mL	6.2627 mL
	10 mM	0.3131 mL	1.5657 mL	3.1314 mL

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

### BIOLOGICAL ACTIVITY

#### Description

AF40431, the first reported small-molecule ligand of sortilin, has an IC<sub>50</sub> of 4.4 μM and a K<sub>d</sub> of 0.7 μM . AF40431 is bound in the neurotensin-binding site of sortilin<sup>[1]</sup>.

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

IC<sub>50</sub>: 4.4 μM (sortilin)K<sub>d</sub>: 0.7 μM (sortilin)<sup>[1]</sup>

### REFERENCES

[1]. Andersen JL, et al. Identification of the first small-molecule ligand of the neuronal receptor sortilin and structure determination of the receptor-ligand complex. Acta Crystallogr D Biol Crystallogr. 2014 Feb;70(Pt 2):451-60.

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

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