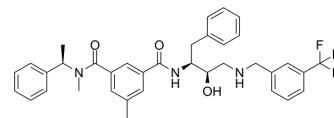


## BACE2-IN-1

Cat. No.:	HY-136742	
CAS No.:	1676107-08-6	
Molecular Formula:	C <sub>36</sub> H <sub>38</sub> F <sub>3</sub> N <sub>3</sub> O <sub>3</sub>	
Molecular Weight:	617.7	
Target:	Beta-secretase	
Pathway:	Neuronal Signaling	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



## SOLVENT & SOLUBILITY

### In Vitro

DMSO : 62 mg/mL (100.37 mM; Need ultrasonic and warming)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.6189 mL	8.0945 mL	16.1891 mL
5 mM	0.3238 mL	1.6189 mL	3.2378 mL
10 mM	0.1619 mL	0.8095 mL	1.6189 mL

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

## BIOLOGICAL ACTIVITY

Description	BACE2-IN-1 (compound 3l) is a highly selective BACE2 inhibitor with a K <sup>i</sup> value of 1.6 nM. BACE2 inhibitors can be used to research of Type 2 Diabetes <sup>[1]</sup> .	
IC <sub>50</sub> & Target	BACE2 1.6 nM (Ki)	BACE1 815.1 nM (Ki)
In Vitro	BACE2-IN-1 (compound 3l) inhibits BACE2 with an K <sup>i</sup> value of 1.6 nM, 500 fold over BACE1 (K <sup>i</sup> = 815.1 nM) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

## REFERENCES

[1]. Ghosh AK, et al. Highly Selective and Potent Human β-Secretase 2 (BACE2) Inhibitors against Type 2 Diabetes: Design, Synthesis, X-ray Structure and Structure-Activity Relationship Studies. ChemMedChem. 2019 Mar 5. 14(5):545-560.

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

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