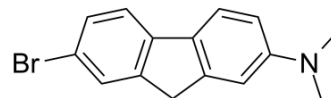


K 01-162

Cat. No.:	HY-14533		
CAS No.:	677746-25-7		
Molecular Formula:	C ₁₅ H ₁₄ BrN		
Molecular Weight:	288.18		
Target:	Amyloid- β		
Pathway:	Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 14.29 mg/mL (49.59 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.4701 mL	17.3503 mL	34.7005 mL
	5 mM	0.6940 mL	3.4701 mL	6.9401 mL
	10 mM	0.3470 mL	1.7350 mL	3.4701 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 1.43 mg/mL (4.96 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline)
Solubility: \geq 1.43 mg/mL (4.96 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: \geq 1.43 mg/mL (4.96 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

K 01-162 (K162) binds and destabilizes A β O (β -amyloid), with an EC₅₀ of 80 nM. IC₅₀ value: 80 nM (EC₅₀)Target: Amyloid- β in vitro: The active drug candidate K162 (EC₅₀ = 0.080 μ M), stabilizes hydrophobic core I of A β 42 peptide (residues 17-21) to its α -helical conformation by interacting specifically in this region. [1] K01-162 shows full MC65 protection at 125 nM, an EC₅₀ of 80 nM, and no cytotoxicity up to 50 μ M. [2]in vivoK01-162 can reduce the brain amyloid burden that exists in both fibrillar and RIPA-soluble, non-fibrillar forms.[2]

REFERENCES

- [1]. Li J, et al. Alzheimer's disease drug candidates stabilize A- β protein native structure by interacting with the hydrophobic core. *Biophys J*. 2011 Feb 16;100(4):1076-82.
- [2]. Hong HS, et al. Candidate anti-A beta fluorene compounds selected from analogs of amyloid imaging agents. *Neurobiol Aging*. 2010 Oct;31(10):1690-9.
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Caution: Product has not been fully validated for medical applications. For research use only.

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