187-1, N-WASP inhibitor

MedChemExpress

Cat. No.:	HY-P1045			
CAS No.:	380488-27-7			
Molecular Formula:	C ₉₆ H ₁₂₂ N ₁₈ O ₁₆			
Molecular Weight:	1784.11 Cyclo[K-{d-Pre}-{d-Pro}-{d-Pre}-F-{d-Pro}-Q]2			
Sequence:	Cyclo[Gln-Lys-{d-Phe}-{d-Pro}-{d-Phe}-Phe-{d-Pro}-Gln-Lys-{d-Phe}-{d-Pro}-{d-Phe}-P he-{d-Pro}]			
Sequence Shortening:	Cyclo[QK-{d-Phe}-{d-Pro}-{d-Phe}-F-{d-Pro}-QK-{d-Phe}-{d-Pro}-{d-Phe}-F-{d-Pro}]			
Target:	Arp2/3 Complex			
Pathway:	Cytoskeleton			
Storage:	Sealed storage, away from moisture and light, under nitrogen Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)			

SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	0.5605 mL	2.8025 mL	5.6050 mL
	5 mM	0.1121 mL	0.5605 mL	1.1210 mL
	10 mM	0.0561 mL	0.2803 mL	0.5605 mL

BIOLOGICAL ACTIVITY

Description	187-1, N-WASP inhibitor, a 14-aa cyclic peptide, is an allosteric neural Wiskott-Aldrich syndrome protein (N-WASP) inhibitor.
	187-1, N-WASP inhibitor potently inhibits actin assembly induced by phosphatidylinositol 4,5-bisphosphate (PIP2) with an IC
	₅₀ of 2 μM. 187-1, N-WASP inhibitor prevents the activation of Arp2/3 complex by N-WASP by stabilizing the autoinhibited
	state of the protein ^{[1][2]} .

REFERENCES

[1]. Peterson, et al. A chemical inhibitor of N-WASP reveals a new mechanism for targeting protein interactions. Proc Natl Acad Sci U S A. 2001 Sep 11;98(19):10624-9.

Product Data Sheet

[2]. S Suetsugu, et al. Identification of another actin-related protein (Arp) 2/3 complex binding site in neural Wiskott-Aldrich syndrome protein (N-WASP) that complements actin polymerization induced by the Arp2/3 complex activating (VCA) domain of N-WASP. J

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

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