

## Angiopep-2 hydrochloride

<b>Cat. No.:</b>	HY-P2341		
<b>Molecular Formula:</b>	C <sub>104</sub> H <sub>150</sub> ClN <sub>29</sub> O <sub>31</sub>		
<b>Molecular Weight:</b>	2337.93		
<b>Sequence:</b>	Thr-Phe-Phe-Tyr-Gly-Gly-Ser-Arg-Gly-Lys-Arg-Asn-Asn-Phe-Lys-Thr-Glu-Glu-Tyr	TFFYGGSRGKRNNFKTEEY (HCl salt)	
<b>Sequence Shortening:</b>	TFFYGGSRGKRNNFKTEEY		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Sealed storage, away from moisture		
	Powder	-80°C	2 years
		-20°C	1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)		

### SOLVENT & SOLUBILITY

<b>In Vitro</b>	H <sub>2</sub> O : 100 mg/mL (42.77 mM); Need ultrasonic					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		0.4277 mL	2.1386 mL	4.2773 mL
		<b>5 mM</b>		0.0855 mL	0.4277 mL	0.8555 mL
	<b>10 mM</b>		0.0428 mL	0.2139 mL	0.4277 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (42.77 mM); Clear solution; Need ultrasonic					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Angiopep-2 hydrochloride is a brain peptide vector. The conjugation of anticancer agents with the Angiopep-2 peptide vector could increase their efficacy in the treatment of brain cancer <sup>[1]</sup> .
<b>In Vitro</b>	Paclitaxel is conjugated to a brain peptide vector, Angiopep-2, to provide a paclitaxel– Angiopep-2 conjugate named ANG1005. ANG1005 enters the brain to a greater extent than paclitaxel and bypasses the P-gp. ANG1005 has an antineoplastic potency similar to that of paclitaxel against human cancer cell lines <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	ANG1005 administration leads to a significant increase in the survival of mice with intracerebral implantation of U87 MG glioblastoma cells or NCI-H460 lung carcinoma cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

[1]. A Régina, et al. Antitumour Activity of ANG1005, a Conjugate Between Paclitaxel and the New Brain Delivery Vector Angiopep-2. Br J Pharmacol. 2008 Sep;155(2):185-97.

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

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