## ANG1005

MedChemExpress

Cat. No.:	HY-P4073
CAS No.:	1075214-55-9
Molecular Formula:	C <sub>256</sub> H <sub>306</sub> N <sub>32</sub> O <sub>81</sub>
Molecular Weight:	
Sequence:	{Paclitaxel-Thr}-Phe-Phe-Tyr-Gly-Gly-Ser-Arg-Gly-{Paclitaxel-Lys}-Arg-Asn-Asn-Phe-{P AING I003 aclitaxel-Lys}-Thr-Glu-Glu-Tyr
Sequence Shortening:	{Paclitaxel-T}FFYGGSRG{Paclitaxel-K}RNNF{Paclitaxel-K}TEEY
Target:	Others
Pathway:	Others
Storage:	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



Description	ANG1005 is a brain-penetrating peptide-agent conjugate. ANG1005, a taxane derivative, consists of three paclitaxel (HY-B0015) molecules covalently linked to Angiopep-2, designed to cross the blood-brain and blood-cerebrospinal barriers and to penetrate malignant cells via low density lipoprotein receptor-related protein (LRP1) transport system <sup>[1][2][3]</sup> .
In Vivo	ANG1005 shows significantly improved delivery to brain and brain metastases of breast cancer compared to free paclitaxel (HY-B0015) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Thomas FC, et al. Uptake of ANG1005, a novel paclitaxel derivative, through the blood-brain barrier into brain and experimental brain metastases of breast cancer. Pharm Res. 2009 Nov;26(11):2486-94.

[2]. Li F, et al. Targeting metastatic breast cancer with ANG1005, a novel peptide-paclitaxel conjugate that crosses the blood-brain-barrier (BBB). Genes Dis. 2017 Feb 10;4(1):1-3.

[3]. Kumthekar P, et al. ANG1005, a Brain-Penetrating Peptide-Drug Conjugate, Shows Activity in Patients with Breast Cancer with Leptomeningeal Carcinomatosis and Recurrent Brain Metastases. Clin Cancer Res. 2020 Jun 15;26(12):2789-2799.

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

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