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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Rabies Virus Glycoprotein

Cat. No.:	HY-P0285
Molecular Formula:	C ₁₄₁ H ₂₁₇ N ₄₃ O ₄₃ S ₂
Molecular Weight:	3266.7
Sequence:	Tyr-Thr-Ile-Trp-Met-Pro-Glu-Asn-Pro-Arg-Pro-Gly-Thr-Pro-Cys-Asp-Ile-Phe-Thr-Asn-Ser-Arg-Gly-Lys-Arg-Ala-Ser-Asn-Gly YTIWMPENPRPGTGPCDIFTNSRGKRASNG
Sequence Shortening:	YTIWMPENPRPGTGPCDIFTNSRGKRASNG
Target:	RABV
Pathway:	Anti-infection
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

In Vitro

H₂O : 100 mg/mL (30.61 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		0.3061 mL	1.5306 mL	3.0612 mL
	5 mM		0.0612 mL	0.3061 mL	0.6122 mL
	10 mM		0.0306 mL	0.1531 mL	0.3061 mL

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

BIOLOGICAL ACTIVITY

Description

Rabies Virus Glycoprotein is a 29-amino-acid cell penetrating peptide derived from a rabies virus glycoprotein that can cross the blood-brain barrier (BBB) and enter brain cells.

In Vitro

RVG peptide is successfully used to carry a variety of cargos into brain cells such as plasmids, siRNAs, proteins, and nanoparticles^[1]. RVG29 can govern the interaction of viral particles with at least three known receptors, including neural cell adhesion molecule (NCAM), the p75 neurotrophin receptor (P75NTR), and nicotinic acetylcholine receptors (NACHRs). The RVG29 peptide enhances the brain-specific function of a range of systemically delivered agents, particularly nucleic acids^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

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- Neurosci Bull. 2021 Mar 29.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Zou Z, et al. Cre Fused with RVG Peptide Mediates Targeted Genome Editing in Mouse Brain Cells In Vivo. Int J Mol Sci. 2016 Dec 14;17(12). pii: E2104.
- [2]. Cook RL, et al. A critical evaluation of drug delivery from ligand modified nanoparticles: Confounding small molecule distribution and efficacy in the central nervous system. J Control Release. 2015 Dec 28;220(Pt A):89-97.
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Caution: Product has not been fully validated for medical applications. For research use only.

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