Chimeric Rabies Virus Glycoprotein Fragment (RVG-9R)

Cat. No.: HY-P4086

CAS No.: 1678417-57-6

Molecular Formula: $C_{201}H_{334}N_{82}O_{55}S_2$

Molecular Weight: 4843.45

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-Gly-Gly-Gly-Arg-Arg-Arg-Arg-Arg-Arg-Arg-Arg-Arg

YTIWMPENPRPGTPCDIFTNSRGKRASNGGGGRRRRRRRRR

Sequence Shortening: YTIWMPENPRPGTPCDIFTNSRGKRASNGGGGRRRRRRRRR

Target: RABV

Pathway: Anti-infection

Storage: Sealed storage, away from moisture and light

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)

SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (5.16 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	0.2065 mL	1.0323 mL	2.0646 mL
	5 mM	0.0413 mL	0.2065 mL	0.4129 mL
	10 mM	---	---	---

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

BIOLOGICAL ACTIVITY

Description

Chimeric Rabies Virus Glycoprotein Fragment (RVG-9R), a chimeric peptide consisting of 29 amino acids, is synthesized by adding nona-arginine motif to the carboxy terminus of RVG (rabies virus glycoprotein). Chimeric Rabies Virus Glycoprotein Fragment (RVG-9R) is positively charged and able to bind negatively charged nucleic acids via charge interaction[1][2].

REFERENCES

[1]. Rassu G, et al. Nose-to-brain delivery of BACE1 siRNA loaded in solid lipid nanoparticles for Alzheimer's therapy. Colloids Surf B Biointerfaces. 2017 Apr 1;152:296-301.

[2]. Margus H, et al. Cell-penetrating peptides as versatile vehicles for oligonucleotide delivery. Mol Ther. 2012 Mar;20(3):525-33.

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

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