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**Product Data Sheet**

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Product Name: Rabies Virus Glycoprotein

Cat. No.: GC34267

**Chemical Properties**

Cas. No.

SMILES 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

Formula C<sub>141</sub>H<sub>217</sub>N<sub>43</sub>O<sub>43</sub>S<sub>2</sub> M.Wt 3266.7

Solubility Soluble in Water Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

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.

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].

[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.

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

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